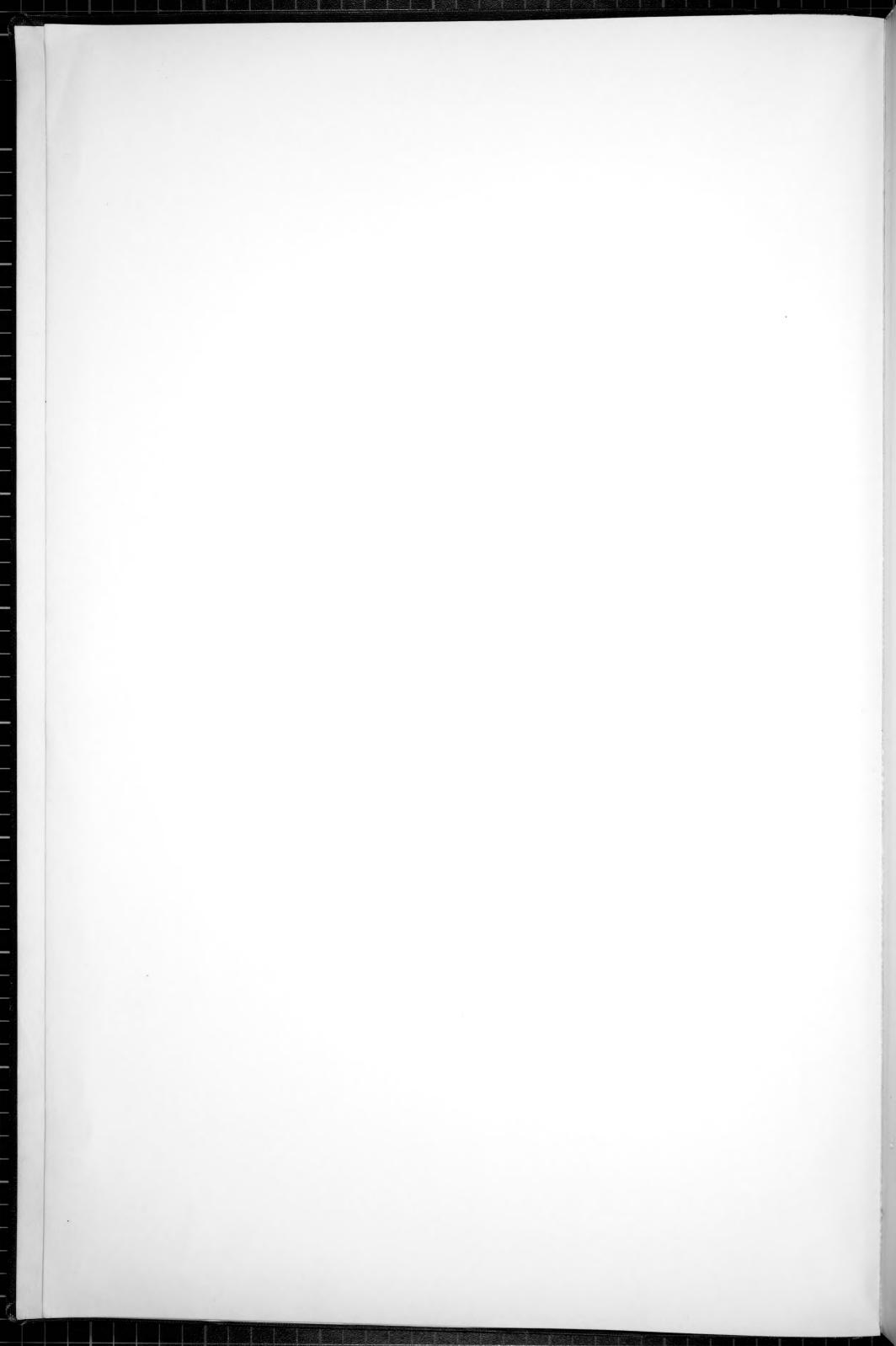
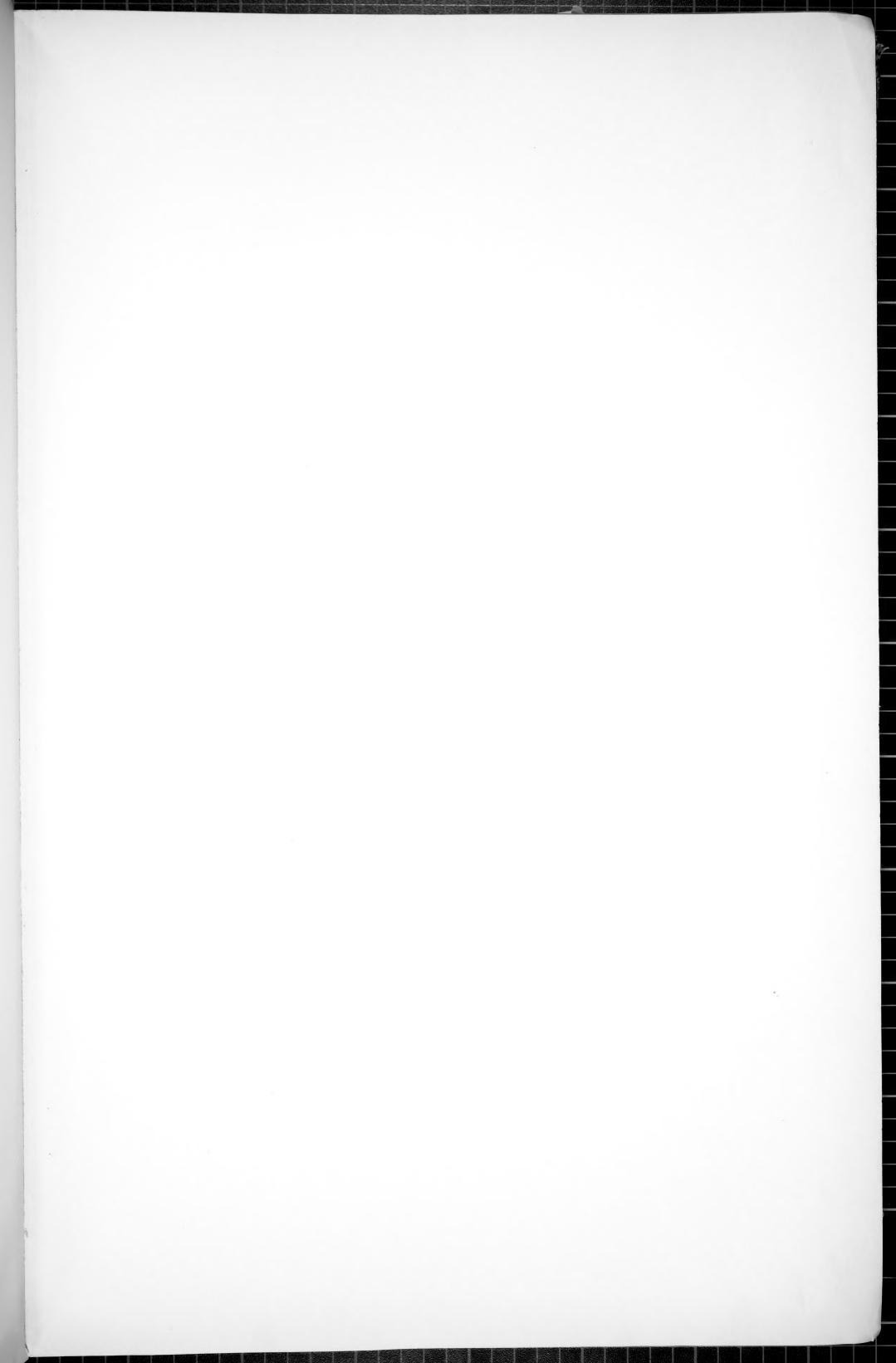
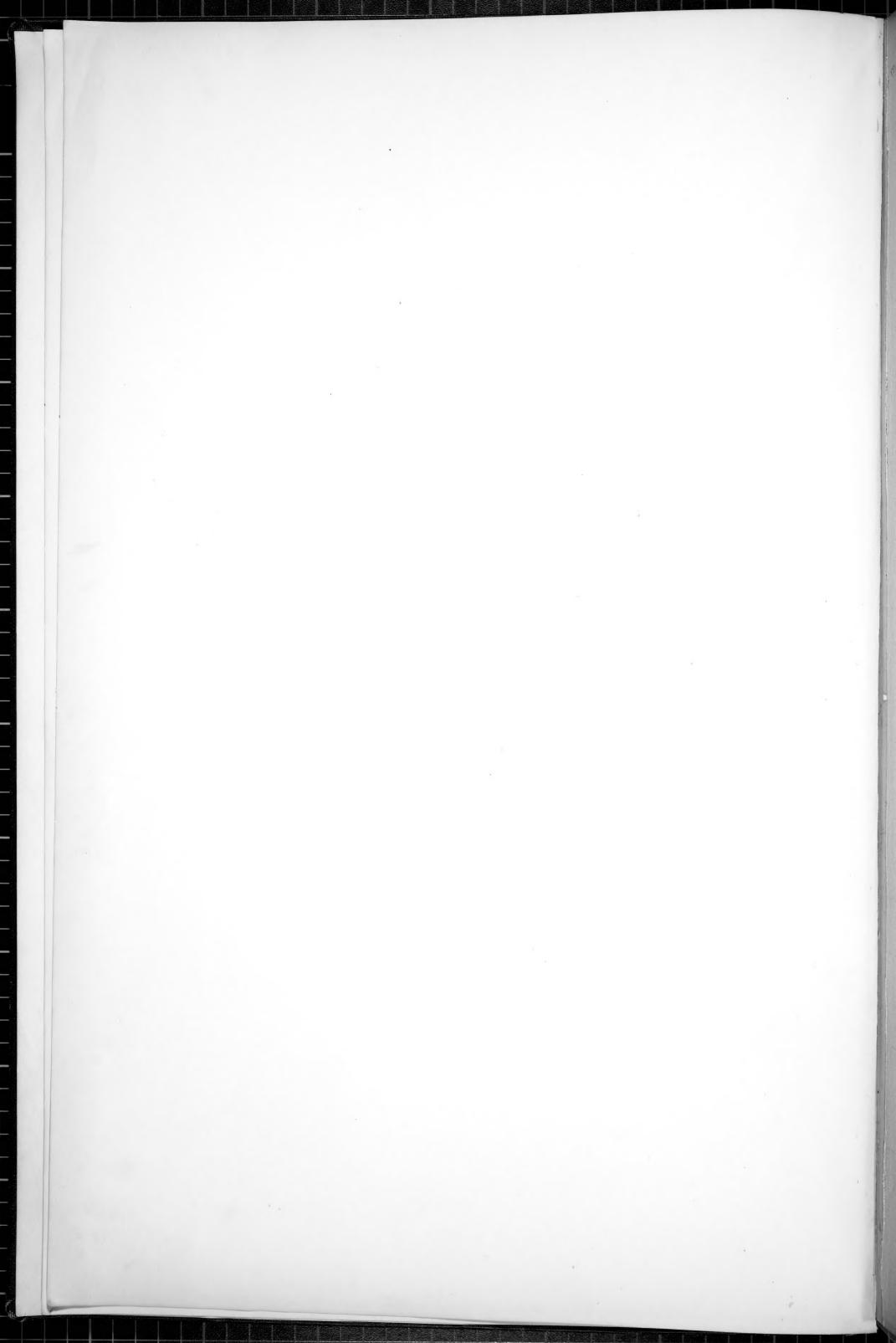




INVERTEBRATE ZOOLOGY Crustacea







QL 435 D16 1852 Pt.1-2 Atlas Trivert. 2008

UNITED STATES

INVERTEBRATE
ZOOLOGY
Crustacea

EXPLORING EXPEDITION.

DURING THE YEARS

1838, 1839, 1840, 1841, 1842.

UNDER THE COMMAND OF

CHARLES WILKES, U.S. N.

ATLAS.

CRUSTACEA.

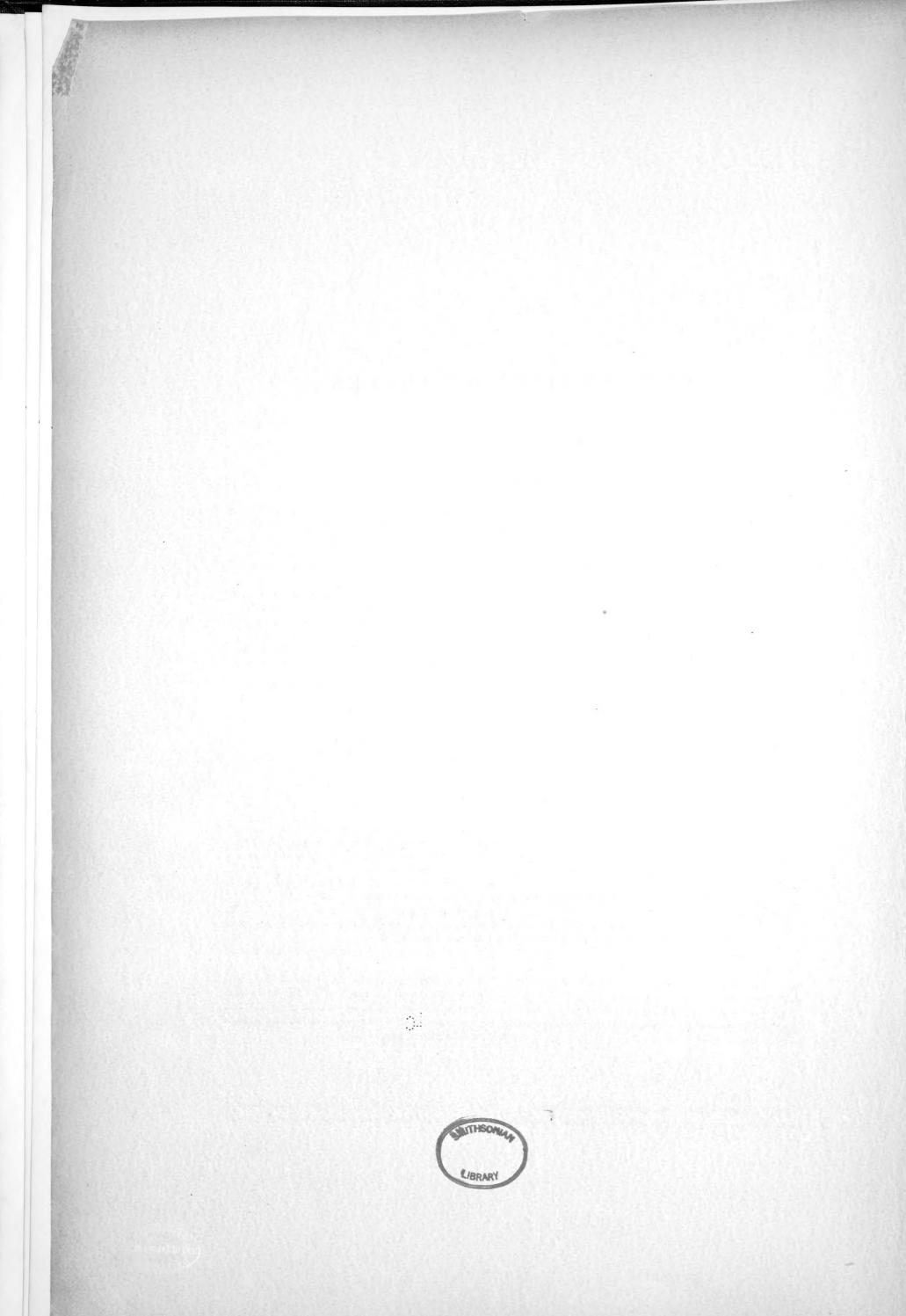
ВУ

JAMES D. DANA, LLD.,

MEMBER OF THE SOC. CÆS. NAT. CUR. OF MOSCOW; THE SOC. PHILOMATHIQUE OF PARIS; THE GEOLOGICAL SOCIETY OF LONDON; THE AMERICAN ACADEMY OF ARTS AND SCIENCES AT BOSTON; THE ACADEMY OF NATURAL SCIENCES AT PHILADELPHIA, ETC.

BY AUTHORITY OF CONGRESS.

PHILADELPHIA:
C. SHERMAN, PRINTER.
1855.



508.2 U58 V.13-14 atlas. MAR. INV.

EXPLANATION OF PLATES.

PREFATORY REMARKS.

After the engraving of the Plates of this Atlas was completed, a large part of the original drawings were destroyed by fire in Philadelphia. In consequence of this catastrophe, many of the following Plates, which were to have been coloured from the missing drawings, are issued uncoloured. Some of the figures here engraved represent known species, the colours of which had either not been given by other authors, or only from dead and faded specimens: as the coloured originals are gone, these figures have lost the principal part of their interest. These facts explain some discrepancies between the text of this Report and the Atlas.

The drawings for this Atlas, issued at this late date, were to a large extent made during the years 1838 to 1842, in the course of the cruise of the Expedition; and in the history of the Science, they would properly have their place in that period.

In closing my labours in connection with the Exploring Expedition, I take this opportunity to observe that, in the preparation of my several Reports, and the Atlases, with which they are illustrated, I have had, half a dozen plates excepted, neither the assistance of an amanuensis nor a draftsman. The plates, however, owe much to the artistic skill and taste of Mr. Joseph Drayton, Artist of the Expedition, who has superintended the engraving and printing, and contributed in many ways to the beauty of the work.

NEW HAVEN, January 1, 1855.

JAMES D. DANA.

I. DECAPODA.

PLATE 1.

Fig. 1 a. HYAS LYRATUS, male, natural size; b, under view of head, enlarged; c, abdomen, natural size; d, extremity of posterior leg.—p. 86.

Fig. 2 a. Pisoides Edwardsii, under view of head, much enlarged; b, outer maxilliped.—p. 87.

Fig. 3 a. Libidoclea coccinea, male, natural size; b, posterior view of carapax; c, under view, showing mouth and inner antennæ, magnified two diameters; d, male abdomen.—p. 88.

Fig. 4 a. MICIPPA HIRTIPES, female, enlarged; b, front view of front or beak, enlarged four diameters; c, female abdomen; d, under view of head; e, hand of female.—p. 90.

Fig. 5 a. Chorilia longipes, female, natural size; b, under view; c, side view of anterior part, enlarged four diameters; d, female abdomen.—p. 91.

PLATE 2.

orbital margin and eye (1 (to right), base of beak; 2, apical enlarged four diameters; b, outer view of right hand; c, extre-

spine of base of outer antennæ; 3, præorbital spine; 4, eye; 5, posterior part of orbit); c, under view of head; d, hand; e, papilla of posterior part of carapax; f, papilla of the apex of the third joint of one of the legs.—p. 93.

Fig. 2 a. Scyra acutifrons, natural size; b, under view of head; c, hand; d, female abdomen.—p. 95.

Fig. 3. Pyria pubescens, enlarged.—p. 96.

Fig. 4 a. MITHRAX ASPER, male, from East Indies, natural size; b, under view of head.—p. 97.

Fig. 5 a. Cyclax Perryi, enlarged; b, under view of head.

Fig. 6 a. Eurypodius septentrionalis, enlarged two diameters; b, outer view of right hand, natural size; c, extremity of second pair of feet, natural size; d, male abdomen, natural size.—p. 101.

Fig. 7 a. Eurypodius brevipes, female, natural size; b, abdomen; c, under view of head.—p. 103.

PLATE 3.

Fig. 1 a. LAHAINA OVATA, male, enlarged three diameters; b, Fig. 1 a. Eurypodius Latreilli, under view of anterior part,

mity of leg of third pair; d, abdomen, enlarged two diameters. —p. 104.

Fig. 2 α . Oregonia gracilis, male, natural size; b, under view, enlarged; c, abdomen, natural size.—p. 106.

Fig. 3 a. Oregonia hirta, anterior part, natural size; b, abdomen, enlarged two diameters.—p. 107.

Fig. 4 a. Pericera trigona, female, natural size; b, under view, enlarged two diameters; c, female abdomen, enlarged two diameters; d, hand of female, enlarged two diameters.—p. 108.

Fig. 5 a. Tiarinia cornigera, male, enlarged two diameters; b, under view; c, abdomen, enlarged two diameters; d, hand, enlarged two diameters; e, extremity of leg of third pair, left side, inner view.—p. 110.

Fig. 6 a. Tiarinia gracilis, male, enlarged three diameters; b, under view; c, male abdomen, enlarged three diameters; d, female abdomen, natural size.—p. 111.

Fig. 7 a. Tiarinia angusta, male, enlarged three diameters; b, outer antennæ.—p. 113.

PLATE 4.

Fig. 1 a. Perinea tumida, male, enlarged four diameters; b, under view, enlarged twelve diameters; c, male abdomen, enlarged four diameters; d, anterior leg; d', d'', views of hand and fingers; e, one of the eight posterior legs, enlarged four diameters; f, tarsus of same.—p. 114.

Fig. 2 a. Halimus tumidus, female, enlarged two diameters; b, under view, enlarged six diameters; c, side view; d, female hand; d', left of male; e, extremity of leg of last pair; f, male abdomen, enlarged five diameters; g, female, ibid.—p. 115.

Fig. 3 a. Pugettia gracilis, male, natural size; b, under view, enlarged four diameters; c, male abdomen, natural size.—p. 117.

Fig. 4 a. Pugettia Richii, male, natural size; b, abdomen, ibid.; e, outer antennæ, natural size; d, outer maxilliped, ibid.; e, fingers of the hand.—p. 118.

Fig. 5 a. Menæthius angustus, carapax, enlarged three diameters; b, under view, enlarged six diameters.—p. 120.

Fig. 6 a. Menethius depressus, female from Sooloo Sea, enlarged four diameters; b, right hand; c, outline of abdomen, segments not indicated in the figure; d, beak of specimen from Upolu; e, abdomen of Sooloo specimen.—p. 121.

Fig. 7 a. Menæthius subserratus, male carapax, enlarged two diameters; b, under view, enlarged four diameters; c, female, enlarged two diameters; d, male abdomen, enlarged two diameters; e, female, ibid.; f, female hand; g, moveable finger of male.—p. 122.

PLATE 5.

Fig. 1 a. Menæthius tuberculatus, male, enlarged three diameters; b, under view, showing antennæ, enlarged six diameters; c, hand.—p. 123.

Fig. 2 a. Menæthius areolatus, beak and eye of male; b, teeth of lateral margin; c, hand.—p. 124.

Fig. 3 a. Menæthius inornatus, male carapax, enlarged three diameters; b, under view of anterior part, enlarged six diameters; c, part of right antenna, outer pair; d, under view of eye; d', upper view of extremity of eye.—p. 125.

Fig. 4 a. Acanthonyx simplex, female, enlarged two diameters; b, hand; c, part of leg of second pair; d, ibid. of fifth pair.—p. 126.

Fig. 5 a. Acanthonyx debilis, male hand, enlarged five diameters; b, extremity of leg, of posterior pair.—p. 127.

Fig. 6 a. Acanthonyx Petiverii? male hand, enlarged four diameters; b, extremity of leg, of second pair, enlarged five diameters; c, ibid. of fifth pair; d, male abdomen.—p. 128.

Fig. 7 a. Peltinia scutiformis, male, enlarged six diameters; b, under view; c, hand.—p. 130.

Fig. 8 a. Peltinia nodulosa, enlarged four diameters; b, under view, showing antennæ.—p. 131.

PLATE 6.

Fig. 1. Epialtus brasiliensis, male, enlarged three diameters.—p. 132.

Fig. 2 a. Epialtus productus, female, natural size; b, abdomen.—p. 133.

Fig. 3 a. Huenia simplex, male, enlarged two diameters; b, side view of beak, ibid.; c, abdomen, ibid.—p. 133.

Fig. 4 a. Huenia brevirostrata, female, enlarged two diameters; b, side view of anterior portion of body; c, extremity of abdomen.—p. 134.

Fig. 5 a. Leucippa levis, male, enlarged two diameters; b, under view; c, part of anterior legs.—p. 135.

Fig. 6 a. Lambrus gracilis, enlarged three diameters; b, abdomen, enlarged six diameters.—p. 137.

Fig. 7 a. Lambrus rhombicus, natural size; b, under view.—p. 136.

Fig. 8 a. Ceratocarcinus speciosus, male, enlarged six diameters; b, under view of head; c, male abdomen.—p. 139.

Fig. 9 a. Eurynolambrus australis, male, natural size; b, front view, enlarged two diameters (the figure, by error of engraver, is somewhat oblique on the Plate); c, profile of a longitudinal medial section.—p. 141.

PLATE 7.

Fig. 1 a. Cancer magister, carapax, natural size; b, part of outer maxilliped, ibid.; c, hand of a small specimen (male), enlarged two diameters; d, extremity of leg of last pair, enlarged two diameters.—p. 151.

Fig. 2 a. Cancer gracilis, male, natural size; b, outer maxilliped, ibid.; c, hand, ibid.; d, abdomen, ibid.—p. 153.

Fig. 3 a. Cancer productus, natural size; b, under view of anterior part, enlarged two diameters; c, hand, right, natural size; d, abdomen, ibid.; e, outline of part of front of a large specimen, natural size; f, outer maxilliped of same; f', part of fouette; f'', extremity of outer maxilliped; g, maxilliped of second pair; h, maxilliped of first pair.—p. 156.

Fig. 4. Atergatis floridus, male, natural size.—p. 159.
Fig. 5 α. Carpilius convexus, natural size; b, abdomen.—

p. 159.

Fig. 6 a. Lionera, Lara, famela, natural size; b, andomen.—

Fig. 6 a. Liomera lata, female, natural size; b, under view, showing outer antenna; d, female abdomen.—p. 161.

PLATE 8.

Fig. 1 a. Actea areolata, animal, enlarged two diameters; b, part of surface of carapax, more enlarged.—p. 162.

Fig. 2. Actær cellulosa, female (with eggs under abdomen), enlarged four diameters.—p. 164.

Fig. 3. Actea hirsutissima, outline of part of carapax, enlarged.—p. 164.

Fig. 4 a. Xantho nitidus, male, enlarged three diameters; b, abdomen.—p. 166.

Fig. 5 a. Xantho superbus, female, natural size; b, abdomen. —p. 167.

Fig. 6 a. Xantho dispar, female, enlarged two diameters; b, front view of part of front; c, side view of large hand; d, female abdomen.—p. 168.

Fig. 7. Xantho minor, female (with eggs), enlarged four diameters.—p. 169.

Fig. 8 a. Xantho (Euxanthus) sculptilis, female, natural size; b, front view of base of outer antennæ and eye; c, orbit, seen vertically, showing summit of base of outer antennæ; d, hand, natural size.—p. 174.

Fig. 9 α . Xantho (Euxanthus) nitidus, natural size; b, orbit, seen vertically, showing summit of outer antenna.—p. 174.

Fig. 10 a. Xantho (Xanthodes) granoso-manus, female, enlarged two diameters; b, front view of front; c, hand, outer view.—p. 175.

Fig. 11 a. Xantho (Xanthodes) nithollus, male, enlarged two diameters; b, front view of front; c, outer view of hand.—p. 177.

Fig. 12 a. Xantho (Xanthodes) notatus, female, enlarged three diameters; b, part of front, in front view, with part of base of outer antenna.—p. 178.

Fig. 13 a. Panopæus levis, male, enlarged two diameters; b, front view of part of front; c, right hand, front view.—p. 180.

PLATE 9.

Fig. 1 a. Medeus ornatus, male, enlarged two diameters; b, side view of carapax, showing relation of orbit and antero-lateral margin; c, front view of base of outer antennæ; d, outer maxillipeds; e, flagellum of outer antennæ; f, extremity of tarsus; g, one of the pectinated setæ of the tarsus, showing its setules.—
p. 182.

Fig. 2 a. Etisus deflexus, male, enlarged two diameters; b, under view of front; c, front view of front; d, right arm, enlarged two diameters; d', hand of same, outer view; c, left arm, enlarged two diameters; f, leg of second or third pair, ibid.; g, outer maxilliped, ibid.; h, abdomen of male, ibid.—p. 184.

Fig. 3 a. Etisodes frontalis, enlarged four diameters; b, under view of front; c, outer maxilliped; d, extremity of abdomen.—p. 187.

Fig. 4 a. Etisodes cælatus, female, enlarged two diameters; b, front view of front; c, right hand; d, female abdomen, enlarged two diameters.—p. 188.

Fig. 5 a. Zozymus Levis, male, enlarged two diameters; b, outer maxilliped; c, fingers of hand, outer view.—p. 191.

Fig. 6 a. Zozymus gemmula, outline of antero-lateral margin, enlarged four diameters; b, front view of part of front, showing part of base of outer antennæ; c, outer view of right hand; d, posterior legs; e, male abdomen.—p. 190.

Fig. 7 α . Carpilodes tristis, female, natural size; b, front view of front; c, outer maxilliped; d, female abdomen, natural size.—p. 193.

Fig. 8 a. Actæodes areolatus, outline of antero-lateral margin, enlarged; b, hand, enlarged; c, front view of front, showing outer antennæ; d, male abdomen.—p. 194.

PLATE 10.

Fig. 1 a. Etisus levimanus, male, natural size; b, left hand, ibid.; c, hand of a smaller specimen, ibid.; d, abdomen; e, female, ibid.; f, young female; g, hand, ibid., enlarged; g', same, natural size; h, abdomen of same, natural size.—p. 185.

Fig. 2 α . Etisus dentatus, male, natural size; b, abdomen.—p. 185.

Fig. 3. Zozymus æneus, natural size.—p. 192.

Fig. 4. Daïra variolosa, carapax, showing the arrangement of the tubercles.—p. 202.

PLATE 11.

Fig. 1. Acteodes faba, female, enlarged four diameters.—p. 195.

Fig. 2. Actrodes bellus, enlarged three diameters.—p. 196.

Fig. 3. Acteodes affinis, cardiac areolet, enlarged two diameters.—p. 197.

Fig. 4 a. Actrodes speciosus, male, enlarged three diameters; b, right hand; c, male abdomen.—p. 198.

Fig. 5 a. Actæodes cavipes, female, enlarged two diameters; b, right hand.—p. 199.

Fig. 6 a. Actrodes sponglosus, carapax, enlarged four diameters; b, front view of front; c, profile of anterior part of carapax (m, front edge; n, first elevation back of it; o, second, ibid.).—p. 201.

Fig. 7. Actæodes? integerrimus, enlarged four diameters.—p. 201.

Fig. 8 a. Chlorodius ungulatus, large hand of male of common variety; b, same, of var. gracilis.—p. 205.

Fig. 9 a. Chlorodius monticulosus, male, natural size; b, male abdomen; c, hand, natural size; d, under view of carapax (p. 24); e, front view of front; f, part of maxilliped.—p. 206.

Fig. 10 a. Chlorodius obscurus? hand, natural size; b, arm and carpus of same; c, smaller hand.—p. 207.

Fig. 11 a. Chlorodius sanguineus, male, natural size; b, right hand, ibid.; b', fingers of same, of another specimen; c, front view of part of front, showing process, p; d, part of outer maxilliped.—p. 207.

Fig. 12 a. Chlorodius nudipes, male, enlarged two diameters; b, abdomen, ibid.; c, part of outer maxilliped.—p. 209.

Fig. 13 a. Chlorodius graches, male, enlarged two diameters; b, extremity of male abdomen; c, female abdomen; d, tarsus of leg of fourth pair; e, part of outer maxilliped.—p. 210.

Fig. 14 a. Chlorodius nodosus, male, natural size; b, front view of part of front; c, outer maxilliped; d, right hand, natural size; e, surface of carapax, enlarged; f, ibid., of another part of carapax; g, part of branch of maxilliped of first pair.—p. 211.

PLATE 12.

Fig. 1 α . Chlorodius cavipes, female, enlarged two diameters; b, abdomen.—p. 212.

Fig. 2 α . Chlorodius cytherea, female, enlarged three diameters; b, extremity of male abdomen; c, part of outer maxilliped.—p. 213.

Fig. 3. Chlorodius nebulosus, part of animal, much enlarged.

—p. 214.

Fig. 4 a. Chlorodius Levissimus, male, enlarged three diameters; b, extremity of male abdomen, enlarged; c, female, ibid.;

d, right hand, enlarged three diameters; e, left, ibid.; f, part of outer maxilliped; g, extremity of tarsus, much enlarged.—p. 215.

Fig. 5 a. Chlorodius niger, antero-lateral portion of carapax, enlarged two diameters; b, larger hand, enlarged two diameters; c, front view of part of front.—p. 216.

Fig. 6 a. Phodius pubescens, male, enlarged three diameters; b, extremity of abdomen; c, front view of part of front, showing process, p, etc.; d, outline of back.—p. 217.

Fig. 7 a. Pilodius nitidus, male, mutilated, enlarged three diameters; b, right arm, enlarged four diameters; c, extremity of abdomen; d, leg of third or fourth pair, enlarged three diameters; e, front view of part of front.—p. 218.

Fig. 8 a. PILODIUS PUGIL, male, enlarged four diameters; b, extremity of male abdomen; c, front view of part of front, showing process, p, etc.; d, fingers of same male, enlarged; e, female abdomen, from Balabac Passage, enlarged; f, fingers of larger hand, ibid.; g, front view of front; h, enlarged view of one of the hairs of the posterior legs; i, part of outer maxilliped.—p. 219.

Fig. 9. PILODIUS SCABRICULUS, enlarged four diameters.—p. 220. Fig. 10 a. PILODIUS PILUMNOIDES, outline of antero-lateral margin; b, front view of front, and base of outer antennæ; c, outline of back, enlarged; f, the front end.—p. 221.

Fig. 11 a. Cyclodius ornatus, enlarged three diameters; b, profile of anterior part of carapax; c, under view of anterior part of body; d, front view of front, showing process, p; e, view of ventral carapax, right side; f, abdomen, enlarged; g, hand.—p. 223.

Fig. 12 a. Cyclodius gracilis, carapax, enlarged three diameters; b, leg of posterior pair, enlarged.—p. 224.

PLATE 13.

Fig. 1. Cymo melanodactylus, male, enlarged three diameters.

—p. 225.

Fig. 2 a. Cymo Andreossyi, male, enlarged three diameters; b, under view of front, showing base of outer antennæ.—p. 225.

Fig. 3 a. Polydectus villosus, female, enlarged two diameters; b, under view; c, hand; d, abdomen of female; e, one of plumose hairs of the villous coat of carapax.—p. 227.

Fig. 4 a. Ozius truncatus, female, natural size; b, abdomen, ibid.; c, moveable finger of larger hand.—p. 230.

Fig. 5 a. Galene hawaiensis, outline of part of carapax, enlarged; b, buccal area.—p. 232.

Fig. 6 a. PSEUDOZIUS PLANUS, male, enlarged one and a half diameters; b, front view of part of front, showing base of outer antenna; c, outer maxilliped; d, fingers of hand, enlarged one and a half diameters; e, male abdomen; f, female, ibid.; g, tarsus of leg of second pair, from another specimen; h, palate and adjoining parts, enlarged.—p. 233.

Fig. 7 a. Pseudozius inornatus, front view of part of front, showing base of outer antenna; b, outer maxilliped; c, abdomen, natural size; d, extremity of inner branch of maxilliped of first pair.—p. 234.

Fig. 8 a. Pseudozius ———? much enlarged.—p. 235.

Fig. 9 a. PSEUDOZIUS DISPAR, female, enlarged three diameters; b, under view of part of front.—p. 235.

Fig. 10. PILUMNUS GLOBOSUS, female, enlarged three diameters.

—p. 236.

Fig. 11 a. PILUMNUS LEVIMANUS, male, enlarged three diameters; b, large hand, enlarged three and a half diameters.—p. 237.

Fig. 12 a. Pilumnus calculosus, female, enlarged three diameters; b, under view of part of front; c, outer maxilliped.—p. 238.

Fig. 13 a. Pilumnus tenellus, outline of antero-lateral margin; b, leg of posterior pair, enlarged three diameters.—p. 239.

PLATE 14.

Fig. 1 a. Melia tessellata, female, enlarged two and one-third diameters; b, under view of anterior part; c, front view of front; d, female abdomen, enlarged two diameters.—p. 242.

Fig. 2 a. Actumnus tomentosus, female, enlarged two diameters; b, under view, showing outer antenna; c, hand.—p. 243. Fig. 3 a. Actumnus obesus, enlarged two diameters; b, left hand.—p. 244.

Fig. 4 a. Ruppellia annulipes, natural size; b, under view; c, extremity of female abdomen.—p. 246.

Fig. 5 a. Eriphia scabricula, male, enlarged one and a half diameters; b, under view.—p. 247.

Fig. 6 a. Eriphia armata, female, natural size; b, front view, a little oblique, of front; c, moveable finger of larger hand; d, female abdomen.—p. 248.

Fig. 7 a. Eriphia Levimana, male, natural size; b, under view; c, front view of front.—p. 249.

Fig. 8. Eriphia gonagra, tooth of carapax.—p. 250.

PLATE 15.

Fig. 1. Trapezia speciosa, enlarged three diameters.—p. 253.

Fig. 2. Trapezia bella, enlarged three diameters.—p. 254.

Fig. 3 a. Trapezia rufopunctata, enlarged three diameters; b, male abdomen.—p. 255.

Fig. 4 a. Trapezia Maculata, Tahiti specimen, enlarged two diameters; b, front, Sandwich Island specimen; c, arm, ibid.; d, arm of another specimen.—p. 256.

Fig. 5 a. Trapezia cymodoce, Tahiti specimen, enlarged two and a half diameters; b, female abdomen; c, outline of front, between the orbits, of a Sandwich Island specimen; d, under view; e, male abdomen; f, extremity of leg of third pair; g, extremity of tarsus; h, outline of right arm (r, outline of carpus); i, outline of left arm of same individual.—p. 257.

Fig. 6 a. Trapezia dentata, enlarged three diameters; b, female abdomen; c, outline of front, of a Tongatabu specimen; d, outline of arm and carpus, ibid.—p. 258.

Fig. 7 a. Trapezia dentata, var. subintegra, enlarged three diameters; b, female abdomen.—p. 259.

Fig. 8 a. Trapezia areolata, enlarged three diameters; b, female abdomen.—p. 259.

Fig. 9 a. Trapezia areolata? var., enlarged; b, male abdomen; c, arm and carpus, in outline.—p. 260.

PLATE 16.

Fig. 1 a. Trapezia ferruginea, enlarged three diameters; b, another variety.—p. 260.

Fig. 2 a. Tetralia nigrificans, enlarged four diameters; b, outline of front, the teeth not being represented; c, outer maxilliped; d, abdomen.—p. 262.

Fig. 3 a. Tetralia glaberrima, from Carlshoff Island, one of

the Paumotus, enlarged two diameters; b, under view of front and mouth; c, female abdomen; d, male abdomen of a Tongatabu specimen, of similar colour; c, large hand, ibid.; f, tarsus, ibid.; f, under view of extremity of tarsus; g, another variety, from Tahiti; h, i, abdomen of same variety, male and female.—p. 263.

Fig. 4 a. Tetralia armata, carapax, enlarged; b, outline of carpus and arm; c, part of hand.—p. 264.

Fig. 5 a. Quadrella coronata, carapax, enlarged three diameters; b, under view of front; c, hand, enlarged three diameters; d, one of eight posterior legs, ibid.—p. 266.

Fig. 6 a. Scylla tranquebarica, profile of front, natural size, specimen from the Samoan or Navigator Islands; b, male abdomen, natural size.—p. 270.

Fig. 7 a. Lupa dicantha, male abdomen, natural size; b, under view (showing e, the anterior margin of the palate or prælabial plate; r, r, ridges on palate; mx, inner branch of maxilliped of first pair; md, mandible); c, outer maxilliped.—p. 272.

Fig. 8. Lupa Sayı, male abdomen, natural size.—p. 273.

Fig. 9 a. Lupa pubescens, carapax, natural size; b, hand, enlarged two diameters; c, under view, showing, c, the epistome; p, the palate and its medial suture; p^1 , suture, which exteriorly, in other species, bends forward towards the epistome to q, and so separates a medial or sternal piece of the palate from an outer or episternal piece (see p. 24); p^2 , a suture, forming the outer limit of the episternal piece, this so-called episternal piece, lying between p^2 and p^1q , and bearing the outer antennæ; f, g, the mandibular segment.—p. 274.

PLATE 17.

Fig. 1 a. Amphitrite speciosa, male, enlarged two diameters; b, abdomen; c, outer maxilliped; d, summit of inner branch of maxilliped of first pair.—p. 276.

Fig. 2 a. Amphitrite longispinosa, enlarged three diameters; b, male abdomen; c, outer maxilliped.—p. 277.

Fig. 3 a. Amphitrite vigilans, part of a male, enlarged two diameters; b, male abdomen; c, outer maxilliped; d, summit of inner branch of maxilliped of first pair.—p. 278.

Fig. 4 a. Carupa tenuipes, male, enlarged four diameters; b, under view of part of front, showing base of outer antenna, etc.; c, outer maxilliped; d, male abdomen; e, arm, under view.—p. 279.

Fig. 5 a. Thalamita admete, outline of front, under view, showing crest at base of outer antenna; b, outer view of hand; c, summit of inner branch of maxilliped of first pair.—p. 281.

Fig. 6 a. Thalamita integra, male, enlarged two diameters; b, hand, outer view, ibid.; c, outer maxilliped; d, summit of inner branch of maxilliped of first pair.—p. 281.

Fig. 7 a. Thalamita crenata, part of front, under view, showing base of outer antenna and crest on same; b, summit of inner branch of maxilliped of first pair.—p. 282.

Fig. 8 a. Thalamita spinimana, carapax, natural size; b, outer view of hand; c, part of front, under view, showing crest of base of outer antenna.—p. 283.

Fig. 9 a. Thalamita crassimana, male, natural size; b, under view of part of front; c, hand, outer view; d, summit of inner branch of maxilliped of first pair.—p. 284.

Fig. 10. Charybdis orientalis, part of carapax, natural size.—

Fig. 11 a. Charybdis crucifera, outline of carapax of a young larged; c, extremity of leg of fourth pair.—p. 324.

individual, natural size; b, hand, ibid.; c, summit of inner branch of maxilliped, first pair.—p. 286.

Fig. 12 a. Charybdis affinis, front, natural size; b, hand, outer view; c, part of inner branch of maxilliped of first pair.—p. 286.

Fig. 13. Charybdis ———? enlarged four diameters.—p. 287. [Dimensions, as given on p. 287, at bottom, four times too large.]

PLATE 18.

Fig. 1 a. Lissocarcinus orbicularis, male, enlarged two diameters; b, under view; c, hand; d, summit of inner branch of maxilliped of first pair; e, male abdomen.—p. 288.

Fig. 2 α . Arenæus cribrarius, under view, enlarged (showing, e, anterior margin of prælabial plate or palate; mx, the summit of the inner branch of the maxillipeds of the first pair; md, mandible); b, outer maxilliped.—p. 290.

Fig. 3. Platyonychus purpureus, natural size.—p. 291.

Fig. 4 a. Acanthocyclus Gayi, outer maxilliped, enlarged; b, maxilliped of second pair; c, part of maxilliped of first pair.—p. 295.

Fig. 5 α. TRICHOCERA OREGONENSIS, natural size; b, under view of part of front; c, outer maxilliped; d, maxilliped of second pair; c, maxilliped of first pair; f, hand; g, tarsus.—p. 299.

Fig. 6 a. Peltarion spinulosum, natural size; b, male abdomen.

—p. 304.

Fig. 7 a. Gomeza serrata, enlarged eight diameters; b, beak, more enlarged; c, under view.—p. 305.

Fig. 8 a. Telmessus serratus, part of animal, enlarged two diameters; b, abdomen and sternum.—p. 303.

PLATE 19.

Fig. 1 a. Kraussia rugulosa, female, enlarged two diameters; b, enlarged view of front; c, outer maxilliped; d, hand, enlarged three diameters; e, tarsus of leg of third pair; f, female abdomen, enlarged.—p. 302.

Fig. 2 a. Eucrate crassimanus, male, natural size; b, abdomen and sternum, ibid.; c, outer maxilliped; d, hand, natural size.—p. 311.

Fig. 3 α . Cleistostoma Bosch? enlarged three diameters; b, outer maxilliped; c, hand, enlarged; d, male abdomen and sternum in part.—p. 313.

Fig. 4 a. Macrophialmus pacificus, male, enlarged two diameters; b, abdomen and part of sternum, ibid.; c, hand, ibid.—p.

Fig. 5 α . Gelasimus nitidus, male, natural size; b, abdomen and sternum; c, outer view of larger hand of male, natural size; d, inner view, ibid., showing crests on the surface.—p. 316.

Fig. 6 a. Helecius cordiformis, natural size; b, hand, ibid.— p. 320.

Fig. 7 a. Helœcius inornatus, male, natural size; b, front, oblique under view, enlarged; c, hand, natural size.—p. 321.

Fig. 8 a. Ocypoda rhombea, male, natural size; b, abdomen and sternum; c, hand, natural size.—p. 322.

PLATE 20.

Fig. 1 a. Ocypoda pallidula, male, natural size; b, hand, enlarged; c, extremity of leg of fourth pair.—p. 324.

Fig. 2. Ocypoda lævis, larger hand of male, enlarged two diameters.—p. 325.

Fig. 3 a. Ocypoda brevicornis, female, natural size; b, eye of another specimen.—p. 326.

Fig. 4 a. O. Brevicornis, var. (?) Longicornuta, male, natural size; b, abdomen and sternum; e, larger hand, natural size; d, extremity of leg of third pair; e, outer maxilliped.—p. 327.

Fig. 5 a. Ocypoda Urvillii? male, natural size; b, outer maxillipeds, enlarged three and a half diameters; e, larger hand, enlarged two and a half diameters.—p. 328.

Fig. 6 a. Pseudograpsus oregonensis, natural size; b, hand.—p. 334.

Fig. 7 a. Pseudograpsus nudus, natural size; b, under view; c, hand, natural size.—p. 335.

Fig. 8 a, b. Trichopus litteratus, male, natural size; b, abdomen and sternum.—p. 336.

PLATE 21.

Fig. 1. Grapsus pictus, outer maxilliped.—p. 336.

Fig. 2. Grapsus strigosus, outer maxillipeds.—p. 338.

Fig. 3 α. Grapsus planifrons, natural size; b, male abdomen and sternum; c, outer maxillipeds, natural size; d, hand, ibid.; e, spine of tarsus.—p. 338.

Fig. 4 a. Grapsus longitarsis, male, natural size; b, under view, enlarged four diameters; c, hand, natural size; d, outline of arm.—p. 339.

Fig. 5 a. Grapsus lividus, male, natural size; b, outer maxillipeds, enlarged two diameters; c, hand, natural size.—p. 340.

Fig. 6 a. Grapsus crivipes; 6 a, outer maxillipeds, enlarged two diameters; b, outline of arm, natural size; c, leg of fourth pair, enlarged two diameters; d, hand of female, natural size.—p. 341.

Fig. 7. Goniograpsus cruentatus, male, natural size.—p. 342. Fig. 8 a. Goniograpsus simplex, carapax, enlarged two dia-

meters; b, leg of fifth pair, enlarged four diameters.—p. 344. Fig. 9 a. Goniograpsus innotatus, male, natural size; b, outer maxillipeds; c, hand, natural size.—p. 345.

PLATE 22.

Fig. 1 a. Planes cyaneus, natural size; b, under view; c, outer antenna; d, hand, enlarged; e, tarsus of leg of fourth pair; f, male abdomen; g, female abdomen; h, male abdomen of a specimen from another locality, and possibly of different species; i, outer maxillipeds of same.—p. 347.

Fig. 2 a. Hemigrapsus sexdentatus, male, natural size; b, leg of second pair, ibid.; c, leg of fifth pair, ibid.—p. 348.

Fig. 3 a. Hemigrapsus crenulatus, hand, natural size; b, leg of second pair, ibid.; c, leg of fifth pair, ibid.; d, abdomen, ibid.—p. 349.

Fig. 4 a. Hemigrapsus crassimanus, male, enlarged two diameters; b, male abdomen and sternum; c, outer maxilliped, enlarged four diameters; d, leg of second pair, enlarged two diameters.—p. 349.

Fig. 5 a. Hemigrapsus affinis, hand of male, natural size; b, leg of second pair, ibid.; c, leg of fifth pair, ibid.; d, part of outer maxilliped, enlarged; e, abdomen and sternum, enlarged two diameters.—p. 350.

Fig. 6 a. Cyrtograpsus angulatus, male, natural size, right (smaller) hand wanting; b, under view, natural size; c, front view

of front; d, sternum and abdomen, ibid.; e, hand, natural size.—p. 352.

Fig. 7 a. Sesarma angustipes, male, natural size; b, male abdomen and sternum; c, hand, natural size.—p. 353.

Fig. 8 a. Sesarma trapezium, male (mutilated), natural size; b, hand, enlarged three diameters; c, leg, enlarged three diameters; c', same, natural size.—p. 355.

Fig. 9 a. Sesarma obtusifrons (mutilated), enlarged two diameters; b, front view of front; c, outer maxilliped, enlarged; d, hand, enlarged.—p. 355.

Fig. 10 a. Sesarma obesum, male, natural size; b, male abdomen and sternum, enlarged two diameters; c, hand, natural size.—p. 356.

PLATE 23.

Fig. 1 a. Sarmatium crassum, male, natural size; b, under view, enlarged four diameters; c, male abdomen and sternum, enlarged two diameters; d, hand, enlarged three diameters.—p. 358.

Fig. 2. Cyclograpsus Audouinii, under view of buccal area, and part of sternum adjoining.—p. 359.

Fig. 3 a. Cyclograpsus cinereus, male, natural size; b, under view, enlarged four diameters; c, male abdomen, enlarged two diameters; d, hand, ibid.; e, tarsus of leg of fourth pair, enlarged.—p. 361.

Fig. 4 a. Cyclograpsus granulatus, male, enlarged two diameters; b, outer maxillipeds; c, male abdomen, enlarged four diameters; d, hand, ibid.; e, tarsus of leg of fourth pair.—p. 361.

Fig. 5 α . Chasmagnathus subquadratus, outer maxillipeds, enlarged two diameters; b, hand, natural size; c, abdomen, natural size.—p. 363.

Fig. 6 a. Chasmagnathus granulatus, male, natural size; b, under view; c, male abdomen and sternum, natural size; d, hand, ibid.—p. 364.

Fig. 7 a. Chasmagnathus lævis, male, natural size; b, male abdomen and sternum, ibid.; c, outer maxilliped, enlarged two diameters; d, hand, natural size.—p. 365.

Fig. 8 a. Helice crassa, enlarged two diameters; b, outer maxillipeds, enlarged four diameters; c, hand, enlarged two diameters; d, male abdomen, ibid.—p. 367.

Fig. 9. Plagusia speciosa, carapax, natural size.—p. 369.

Fig. 10 a. Plagusia glabra, natural size; b, front view of front; enlarged four and one-half diameters; c, outer maxillipeds; d, abdomen and sternum, natural size.—p. 371.

Fig. 11 a. Acanthopus abbreviatus, enlarged one and one-half diameters; b, outer maxilliped, ibid.; c, male abdomen and sternum.—p. 373.

PLATE 24.

Fig. 1. Cardisoma obesum, part of carapax, under side, natural size.—p. 375.

Fig. 2 a. Cardisoma hirtipes, male, natural size; b, male abdomen and sternum, ibid.; c, base of outer antennæ, and the process (p) between it and the orbit; a, tarsus of leg of fourth pair, enlarged.—p. 376.

Fig. 3 a. PINNOTHERA OBESA, small male, enlarged three diameters; b, c, outlines of different females, natural size; d, under view of front of animal represented in fig. a; e, outer maxillipeds of animal of fig. b, enlarged; f, same, more enlarged; g, seta of same; h, male abdomen; i, hand, enlarged three diameters.—p. 380.

Fig. 4 a. Pinnothera faba, female, natural size; b, outer maxillipeds, enlarged; c, hand, enlarged.—p. 381.

Fig. 5 a. Fabia subquadrata, female, natural size; b, same, under view; c, under view of front and mouth, enlarged; d, hand, enlarged five diameters; c, extremity of leg.—p. 382.

Fig. 6 a. Xanthasia murigera, enlarged two and one-quarter diameters; b, under view, enlarged eight diameters.—p. 384.

Fig. 7 a. Halicarcinus planatus, enlarged two diameters; b, outer maxilliped.—p. 385.

Fig. 8. Halicarcinus pubescens, male, enlarged.—p. 386.

Fig. 9 a,b. Hymenicus varius, two varieties, enlarged; c, outer maxilliped; d, male abdomen.—p. 387.

Fig. 10. Abdomen of another specimen, probably same species.—p. 387.

Fig. 11 a. Hymenicus pubescens, enlarged; b, male abdomen; c, female abdomen.—p. 388.

PLATE 25.

Fig. 1. Calappa fornicata (?), carapax, natural size.—p. 394.

Fig. 2. Hepatus angustatus, natural size.—p. 394.

Fig. 3. Hepatus Chilensis, natural size.—p. 395.

Fig. 4 a. Iphis longipes, male, natural size; b, outer maxillipeds; c, abdomen.—p. 396.

Fig. 5 a. Nucia speciosa, enlarged three diameters; b, outer maxillipeds.—p. 397.

Fig. 6 a. Albunea speciosa, natural size; b, anterior part, showing front, enlarged three diameters; c, outer antennæ, enlarged two diameters; d, extremity of leg of first pair, ibid.; e, part of fourth pair, ibid.; f, caudal extremity, ibid.—p. 405.

Fig. 7 a. Rempes pacificus, enlarged two diameters; b, part of longer branch of inner antennæ, enlarged; c, mandible, enlarged; c', same, under view; d, outer maxilliped, enlarged two diameters; e, foot of first pair, ibid.; f, foot of third pair, ibid.; g, foot of fifth pair, enlarged seven diameters.—p. 407.

Fig. 8 a. Remipes hirtipes, natural size; b, antennæ of first pair in profile; c, antenna of second pair, under view.—p. 408.

Fig. 9 a. Hippa emerita, front, with eyes and antennæ, enlarged six diameters; b, third joint of outer maxilliped, enlarged two diameters; c, last joint of anterior legs, enlarged six diameters.—p. 409.

Fig. 10 a. Hippa talpoides, front, enlarged six diameters; b, third joint of outer maxillipeds, enlarged two diameters; c, last joint of anterior legs.—p. 409.

PLATE 26.

Fig. 1 a. Porcellana biunguiculata, enlarged four diameters;
b, larger hand; c, front view of front; d, tarsus, enlarged.—p. 411.
Fig. 2. Porcellana sculpta, enlarged.—p. 412.

Fig. 3. Porcellana monilifera, enlarged two diameters.—p.

Fig. 4. Porcellana suluensis, enlarged four diameters.—p. 414.

Fig. 5 α . Porcellana valida, natural size; b, part of flagellum of outer antenna, near its middle.—p. 415.

Fig. 6 α . Porcellana violacea, part of flagellum of outer antenna, near its middle; b, extremity of leg, natural size.—p. 416.

Fig. 7. Porcellana Granulosa, part of flagellum of outer antenna.—p. 416.

Fig. 8. Porcellana speciosa, enlarged two diameters.—p. 417. Fig. 9 a. Porcellana mitra, enlarged four diameters; b, extremity of abdomen.—p. 419.

Fig. 10. Porcellana tomentosa, enlarged two diameters, antennæ mutilated.—p. 420.

Fig. 11. Porcellana Boscii, natural size.—p. 421.

Fig. 12 a. Porcellana angusta, enlarged eight diameters; b, outer maxillipeds; c, extremity of abdomen.—p. 423.

Fig. 13. Porcellana scabricula, enlarged three diameters.—

Fig. 14. Porcellana spinuligera, enlarged four diameters, middle tooth of front mutilated.—p. 426. Name changed from *P. armata*, see p. 1593.

Fig. 15. LITHODES ANTARCTICA, abdomen of a large female, natural size.—p. 427.

Fig. 16. Lithodes verrucosa, natural size.—p. 428.

PLATE 27.

Fig. 1 a. Bernhardus novi-zealandlæ, natural size; b, part of flagellum of outer antennæ, enlarged; c, extremity of leg of fourth pair, ibid.—p. 440.

Fig. 2 a. Bernhardus armatus, natural size; b, extremity of leg of fourth pair, enlarged; c, part of flagellum of outer antenna, enlarged.—p. 442.

Fig. 3 a. Bernhardus hirsutiusculus, enlarged two diameters; b, part of flagellum of outer antenna.—p. 443.

Fig. 4 a. Bernhardus scabriculus, enlarged four diameters; b, c, right and left hands.—p. 444. Name changed from B. pubescens, see page 1593.

Fig. 5 a. Bernhardus obesocarpus, enlarged two diameters; b, right hand, ibid.; c, left, ibid.; d, right leg of third pair, ibid.

Fig. 6. Bernhardus æquimanus, enlarged three diameters, two of left legs mutilated.—p. 445.

Fig. 7 a. Bernhardus tenumanus, right hand, enlarged two diameters; b, left, ibid.; c, leg of third pair, ibid.—p. 447.

Fig. 8 a. Bernhardus criniticornis, enlarged four diameters; a', part of the flagellum of outer antenna; b, basal scale of eye-peduncle; c, right hand, enlarged four diameters; d, left, ibid.; e, left leg of third pair, ibid.—p. 448.

Fig. 9 a. Diogenes Miles, part of head, much enlarged; b, tarsus of leg of second or third pair.—p. 439, where head is incorrectly printed hand.

Fig. 10 a. Diogenes custos, enlarged two diameters; b, beak and basal scale of eye-peduncle; c, part of outer antenna; d, left hand; e, right hand; f, purt of leg of third pair; g, extremity of leg of fourth pair.—p. 439.

PLATE 28.

Fig. 1 a. Paguristes longirostris, enlarged two diameters; b, part of flagellum of outer antenna.—p. 436.

Fig. 2 a. PAGURISTES HIRTUS, enlarged two diameters; b, part of inner antenna; c, hand; d, part of leg of second or third pair; c, ibid., of fourth pair; f, ibid., of fifth pair.—p. 437.

Fig. 3 a. Pagurus guttatus, natural size; b, leg of fourth pair.—p. 451.

Fig. 4 a. PAGURUS PUNCTULATUS, carapax, natural size, showing the sutures; b, side view of same.—p. 430, 451.

Fig. 5 a. Pagurus spinimanus, natural size; b, front, enlarged; were unfortunately lost at the wreck of the Peacock. Figure c, hand, side view, enlarged.—p. 452.

Fig. 6 a. Pagurus euopsis, natural size; b, joints of flagellum, from basal half of the organ; c, ibid., from apical half.—p. 453.

Fig. 7 a. Pagurus fabimanus, natural size; a', part of animal, enlarged two diameters; b, left hand, natural size; c, right, ibid.; d, extremity of left leg, third pair, ibid.; e, extremity of fourth pair enlarged.—p. 454.

Fig. 8 a. Pagurus scabrimanus, enlarged two diameters; b, left hand, natural size; c, left leg, third pair, ibid.—p. 455.

Fig. 9. Calcinus Gaimardii, natural size.—p. 457.

Fig. 10 a. Calcinus elegans, natural size; b, anterior part, enlarged; c, larger hand, enlarged.—p. 458.

Fig. 11. Calcinus latens, natural size.—p. 459.

PLATE 29.

Fig. 1. Aniculus typicus, natural size.—p. 461.

Fig. 2. CLIBANARIUS LINEATUS, enlarged two diameters—p. 462.

Fig. 3 a. CLIBANARIUS STRIOLATUS, enlarged one and a half two joints of right leg of third pair.—p. 463.

Fig. 4 a. CLIBANARIUS ÆQUABILIS, Madeira specimen, enlarged hand, side view, ibid.; f, part of left leg of third pair, ibid. p. 465.

Fig. 5 a. Clibanarius zebra, enlarged four diameters; $b,\ c,$ hand; d, part of right leg of third pair.—p. 465.

Fig. 6 a, b. Clibanarius virescens? different varieties, en- g, front view of beak.—p. 489. larged two diameters.—p. 466.

Fig. 7. CLIBANARIUS BRASILIENSIS, enlarged three diameters. p. 467.

hand, outer view, enlarged; d, part of right leg of third pair; e, of leg of fifth pair.—p. 492. same, left side.—p. 468.

Fig. 9. CLIBANARIUS HUMILIS, natural size.—p. 469.

Fig. 10 a. Cenobita brunnea, natural size; b, side view, showing antennæ.—p. 470.

PLATE 30.

Fig. 1. Cenobita rugosa, natural size.—p. 471.

Fig. 2 α . Cenobita Rugosa, var. Pulchra, natural size; b, left hand.—p. 472.

Fig. 3 a. Cenobita carnescens, natural size; b, animal, withdrawn in the shell, showing how the shell is closed by the feet. ---р. 472.

Fig. 4 a. Cenobita Clypeata, hand, natural size; b, ibid., var. BREVIMANA.—p. 473.

Fig. 5 a. Birgus latro, two-thirds natural size; b, inside of |d, caudal extremity.—p. 510. stomach. [The figure of this Birgus, 5 α , by Mr. Agate, one of the artists of the Expedition, is not quite correct, especially in the fingers of the small hand. It was inserted principally for the colouring, and this is prevented by the destruction of the original drawing, by the recent fire, alluded to in the Introductory Remarks. Mr. Agate's sketch was admirably coloured; but it was left to be

5 b, was made by the author.]—p. 474.

Fig. 6 a. Æglea levis, natural size; b, carapax, showing sutures (see page 430); c, side view of carapax; d, extremity of abdomen; e, sternum; f, branchia.—p. 476.

Fig. 7 a. Munida subrugosa, natural size; b, caudal extremity; c, exterior maxillipeds.—p. 479.

Fig. 8. Galathea laterostris, enlarged (antennæ unfinished). -p. 480.

Fig. 9 a. Galathea spinosirostris, front of carapax, enlarged; b, second and third joints of outer maxillipeds; c, anterior legs.

Fig. 10 a. Galathea vitiensis, enlarged (figure incomplete); b, part of flagellum of second antennæ.—p. 481.

Fig. 11. GALATHEA LONGIROSTRIS, enlarged (figure incomplete). **—**р. 482.

Fig. 12 a. Galathea integrirostris, front, showing beak, enlarged; b, second and third joints of outer maxillipeds.—p. 482.

PLATE 31.

Fig. 1 a. Grimothea gregaria, enlarged; b, one of third, fourth, diameters; b, part of eye-peduncles and the basal scale; c, last fifth, or sixth abdominal segments, showing the sternum below; c, stomach, dorsal view.—p. 483.

Fig. 2 α . Marestia elegans, enlarged four diameters; b, front two diameters; b, hand of same; c, part of left leg of third pair, view of front; c, outer antenna; d, second maxilliped; e, outer ibid.; d, from a Tahiti specimen, enlarged four diameters; e, maxilliped; f, hand; g, same, fingers closed; h, tarsus of third pair of legs; i, tarsus of fifth pair.—p. 488.

Fig. 3 a. Marestia atlantica, enlarged four diameters; b, outer antenna, enlarged; c, tarsus of leg of third pair; d, ibid., of fifth pair; e, part of one of the setæ of posterior tarsus; f, hand;

Fig. 4. Marestia pervalida, enlarged eight diameters.—p.

Fig. 5 α . Monolepis orientalis, enlarged four diameters; b, Fig. 8 a. Clibanarius corallinus (?), enlarged two diameters; earapax; c, under view; d, front view of front; e, outer maxilb, front, with basal scale of eye-peduncle, more enlarged; c, right liped; f, extremity of leg of second pair in profile; g, extremity

Fig. 6. Monolepis inermis, under view.—p. 493.

Fig. 7 α . Cyllene Hyalina, enlarged four diameters; b, outer maxillipeds; c, hand; d, tarsus of third pair; e, tarsus of fifth pair; f, outer antenna.—p. 493.

Fig. 8 a. Cyllene furciser, beak and front; b, two divergent spines of cephalothorax below; c, anterior leg; d, posterior tarsus. —р. 494.

Fig. 9. Tribola lata, enlarged.—p. 495.

Fig. 10 a. Tribola pubescens, enlarged; b, beak; c, left hand. **—**р. 496.

PLATE 32

Fig. 1 a. Gebia pugettensis, natural size; b, side view of carapax, enlarged four diameters; \emph{e} , liand, enlarged two diameters;

Fig. 2 a. Gebia hirtifrons, natural size; b, front, enlarged; c, side view; d, hand; e, caudal segment; f, appendages, either side.—p. 511.

Fig. 3 a. Callianassa gigas, natural size ; b, eye, enlarged ; c, arm; d, inner antenna.—p. 512.

completed in some points from the specimens, and the specimens b, part of inner antenna; c, part of outer maxilliped.—p. 513. Fig. 4 a. Trypæa australiensis, natural size (eyes erroneous?);

Fig. 5 a. Thalassina gracilis, natural size; b, side view; c, beak, upper view; d, leg of first pair; e, ibid., of second pair; f, larger hand (left); d, smaller hand; e, part of leg of second pair; part of outer maxilliped; g, caudal extremity.—p. 514.

Fig. 6. Parribacus antarcticus, natural size.—p. 517.

Fig. 7 a. Arctus vitiensis, enlarged four diameters; b, sternum, ibid.; c, leg of first pair, ibid.; d, leg of second pair, ibid.; e, leg of third pair, ibid.; f, abdominal appendage of second segment; g, inner antenna.—p. 517.

PLATE 33.

Fig. 1 a. Astacus leniusculus, male, natural size; b, younger individual.—p. 525.

Fig. 2a. Cambarus Bartonii, carapax and antennæ, natural size; b, larger hand; c, caudal segment.—p. 525.

Fig. 3 a. Astacoides nobilis, natural size; b, anterior part of epistome, with base of outer antennæ, either side.—p. 526.

Fig. 4 a. Paranephrops tenuicornis, natural size; b, under view of head, enlarged four diameters; c, outer maxilliped.—p.

Fig. 5 a. Crangon munitus, natural size; b, extremity of caudal segment.—p. 536.

Fig. 6 a. Paracrangon echinatus, natural size; b, under view, showing natural position of first, third, and fourth pairs of legs, the second being obsolete; c, upper view of carapax; d, vertical view of penult abdominal segment; e, mandible; f, g, extremity of mandible, different views; h, second maxilliped; i, outer maxilliped.—p. 538.

Fig. 7 a. Nika hawaiensis, female, with eggs, enlarged four diameters; b, mandible; c, first maxilliped; d, maxilliped of second pair; e, left leg of first pair; e', ibid., more enlarged; f, leg of second pair; g, leg of third or fourth pair; h, tip of beak. —р. 538.

PLATE 34.

Fig. 1 a. Atyoida bisulcata, enlarged two diameters; b, b', mandible; c, maxilla of first pair, outer view; c', ibid., inner view; d, maxilla of second pair; e, first maxilliped; f, second maxilliped, with palpus broken; y, outer maxilliped; y', extremity of same, inner view, more enlarged; h, hand; i, extremity of leg of fourth pair.—p. 540.

Fig. 2 a. Alpheus Edwardsh, front part, enlarged; b, extremity of outer maxilliped; c, larger hand (right); d, smaller hand; e, part of foot of second pair; f, part of leg of third or fourth pair.—p. 542.

Fig. 3 a. Alpheus Leviusculus, front part, enlarged; b, part of outer maxilliped; c, larger hand; d, smaller, ibid.; c, part of leg of second pair; f, ibid., of third or fourth.—p. 543.

Fig. 4 a. Alpheus strenuus, front, enlarged two diameters; b, large hand (left); c, smaller hand; d, part of leg of second pair; e, part of leg of third pair.—p. 543.

Fig. 5 a. Alpheus pacificus, enlarged; b, side view of part of carapax; c, part of outer maxilliped; d, e, hands; f, part of of second pair; g, part of leg of third or fourth pair.—p. 544.

Fig. 6 a. Alpheus Euchirus, enlarged; b, part of outer maxilliped; c, larger hand (right); d, smaller hand; e, part of leg of second pair; f, part of leg of third or fourth pair.—p. 545.

Fig. 7 a. Alpheus obesimanus, enlarged; b, part of outer maxilliped; c, larger hand (left); d, smaller hand; e, leg of second pair; f, part of third or fourth pair.—p. 547.

Fig. 8 a. Alpheus crinitus, enlarged; b, outer maxilliped; c, f, leg of third or fourth pair.—p. 548.

PLATE 35.

Fig. 1 a. Alpheus mitis, front, enlarged eight diameters; b, extremity of outer maxilliped; e, larger hand; d, smaller; e, part of leg of second pair; f, part of leg of third pair.—p. 549.

Fig. 2 a. Alpheus acuto-femoratus, front, much enlarged; b, extremity of outer maxilliped; c, part of leg of second pair; d, ibid., of third or fourth pair; e, ibid., of fifth pair.—p. 550.

Fig. 3 a. Alpheus parvirostris, side view of front, enlarged; b, part of outer maxilliped; c, larger hand, enlarged; d, smaller, ibid.; e, part of leg of second pair; f, ibid., of third pair.—p. 551.

Fig. 4 a. Alpheus tridentulatus, front, enlarged four diameters; b, part of outer maxilliped; c, right or larger hand, enlarged two diameters; d, smaller, ibid.; e, part of leg of third pair, ibid.—p. 552.

Fig. 5 a. Alpheus neptunus, front, enlarged six diameters; b, larger hand, ibid.; c, same, moveable finger thrown upward; d, smaller hand, enlarged six diameters; e, part of leg of second pair; f, ibid., of third pair.—p. 553.

Fig. 6 a. Alpheus pugnax, front, side view, enlarged; b, upper view; c, part of outer maxilliped; d, e, larger hand, in different positions; f, smaller hand; g, part of leg of second pair; h, part of leg of third pair.—p. 555.

Fig. 7 a. Alpheus diadema, front, enlarged; b, side view; c, part of outer maxilliped; d, part of leg of second pair; e, ibid, of third pair.—p. 555.

Fig. 8 a. Alpheus lævis, front, enlarged three diameters; b, side view; c, part of outer maxilliped; d, larger hand, enlarged two diameters; e, smaller, enlarged two and one-half diameters; f, part of leg of second pair; g, ibid., of third pair, enlarged two diameters; h, form of tarsus.—p. 556.

Fig. 9 α . Alpheus malleator, cephalothorax, natural size; b, front, side view, enlarged; b', same, upper view; c, caudal segment and appendages; d, larger hand, outer view, natural size; e, same, inner surface, from a larger specimen; f, smaller hand; y, leg of second pair, natural size; h, outer maxilliped, enlarged.

Fig. 10 a. Betleus truncatus, enlarged two diameters (large hand in the figure, on the wrong side); b, upper view of front; c, smaller hand.—p. 559.

Fig. 11 a. Betæus æquimanus, enlarged four diameters; b, front, upper view.—p. 560.

Fig. 12 α . Betæus scabridigitus, front of female, enlarged two diameters; b, caudal segment; c, outer maxilliped, ibid.; d, larger hand, ibid.; d', ibid., male; e, part of leg of second pair; f, ibid., of third or fourth; g, part of flagellum of outer antennae. ---р. 560.

Fig. 1 a. Hippolyte acuminata, anterior part, enlarged two diameters; b, inner antennæ; c, hand of first pair; d, leg of second pair; e, part of leg of third pair.—p. 562.

Fig. 2a. Hippolyte exilirostrata, male, natural size; b, hand of second pair, enlarged; c, extremity of leg of third pair, enlarged; d, tarsus of same, enlarged seventy diameters.—p. 563.

Fig. 3 a. Hippolyte obliquimana, part of female, enlarged six diameters; b, part of leg of second pair, ibid.; c, hand of first pair, ibid.; d, ibid., enlarged twenty-four diameters; e, extremity of leg of third pair; f, tarsus of same leg, enlarged seventy diameters.—p. 564.

Fig. 4 a. Hippolyte gibbosa, natural size; b, beak; c, part of leg of first pair, enlarged; d, ibid., of second pair; e, under view of part of abdomen.—p. 565.

Fig. 5. Hippolyte brevirostris, enlarged two diameters.—p. 566.

Fig. 6 a. Hippolyte lamellicornis, natural size; b, extremity of outer maxilliped, enlarged six diameters; c, part of leg of second pair, ibid.; d, ibid., of third pair.—p. 567.

Fig. 7 α . Rhyncocinetes typicus, natural size; b, beak, ibid.; c, part of outer maxilliped of male, ibid.—p. 568.

Fig. 8. Pandalus pubescentulus, natural size.—p. 568.

PLATE 37.

Fig. 1 a. Pontonia tridacnæ, enlarged four diameters; b, under view of abdomen; c, under view of anterior part of cephalothorax; d, one of the branchial leaflets.—p. 571.

Fig. 2 a. ŒDIPUS SUPERBUS, enlarged three and one-half diameters; b, extremity of caudal extremity; e, maxilliped of second pair; d, outer maxilliped; e, outline of tarsus; f, rostrum and outline of back.—p. 573.

Fig. 3 a. ŒDIPUS GRAMINEUS, enlarged three and one-half diameters; b, beak; c, under view of carpus and extremity of arm; d, maxilliped of second pair; e, ibid., of third pair.—p. 575.

Fig. 4 a. Harphius Lutescens, enlarged four diameters, caudal segment, mutilated; b, profile of beak; c, upper view of head; d, d', different views of mandible; e, maxilliped of first pair, enlarged twelve diameters; f, ibid., of second pair; g, ibid., of outer pair; h, extremity of one of eight posterior legs.—p. 576.

Fig. 5 α . Anchistia gracilis, animal, enlarged three diameters; b, outline of beak; c, mandible; d, extremity of terminal process of mandible; e, maxilliped of first pair; f, ibid., of second pair; g, a seta of same; h, outer maxilliped; i, last joint of same; k, under view of carpus and arm of second pair of feet; l, extremity of third pair; m, one of the setæ of the basal scale of the outer antenna.—p. 578.

Fig. 6 a. Anchistia longimana, head, enlarged five diameters; b, beak in profile.—p. 579.

PLATE 38.

Fig. 1 α . Anchistia ensifience, enlarged five diameters; b, inner antenna and eye; c, outer antenna; d, d', mandible, in different positions; e, maxilliped of second pair; f, outer pair; g, extremity of leg of third or fourth pair.—p. 580.

Fig. 2 a. Anchistia aurantiaca, enlarged six diameters; b, abdominal appendage of first pair; c, of second, ibid.; d, part of caudal segment.—p. 581.

Fig. 3 a. Palæmonella tenuipes, part of animal, enlarged; b, mandible, more enlarged; b', terminal process, and palpus, ibid.; c, maxilliped of second pair; d, of outer pair.—p. 582.

Fig. 4 a. Palæmonella orientalis, female; b, mandible, more enlarged; c, maxilliped of second pair; d, of outer pair.—p. 583.

Fig. 5 a. Palæmon Affinis, natural size; b, outline of beak and cephalothorax; c, base of inner antennæ; d, mandible; e,

Fig. 3 a. Hippolyte obliquimana, part of female, enlarged six inner maxilla; f, maxilliped of second pair; g, ibid., of outer pair.—p. 584.

Fig. 6. Palemon debilis, cephalothorax, enlarged two diameters.—p. 585.

Fig. 7. P. debilis, var. Attenuatus, enlarged two diameters.—p. 585.

Fig. 8. Palæmon exilimanus, cephalothorax, enlarged two diameters.—p. 586.

Fig. 9. Palemon squilla, cephalothorax, enlarged two diameters.—p. 586.

Fig. 10 a, b. Palæmon concinnus, cephalothorax, enlarged two diameters; b, beak, from a larger specimen, enlarged.—p. 587.

Fig. 11 a. PALEMON NATATOR, mandible, enlarged.—p. 588.

Fig. 12 a. Palæmon grandimanus, cephalothorax, natural size; b, smaller hand of second pair, natural size.—p. 588.

Fig. 13 a. Palæmon lanceifrons, cephalothorax, natural size; b, beak, enlarged.—p. 589.

PLATE 39.

Fig. 1 a, a'. Palæmon acutirostris, outline of cephalothorax of different specimens, natural size; b, part of same, more enlarged.—p. 590.

Fig. 2 a. Palæmon equidens, outline of beak, natural size; b, arm.—p. 591.

Fig. 3 a. Hymenocera picta, natural size; b, main branch of outer maxillipeds, enlarged; c, extremity of leg of first pair, enlarged four diameters.—p. 593.

Fig. 4 a. Cryphiops spinulosi-manus, female, natural size, antennæ in part mutilated; b, under view of anterior part, enlarged two and one-half diameters, showing mandibles and base of antennæ; e, maxilliped of second pair; d, ibid., of outer pair; e, base of leg of first pair; f, extremity of moveable finger of leg of second pair; g, part of third flagellum of inner antennæ; h, beak, natural size.—p. 595.

Fig. 5 a. Regulus lucibus, female, enlarged four diameters; b, beak; c, part of outer maxilliped; d, ibid., leg of first pair; e, ibid., leg of second pair (b, c, d, e, being in relative position); f, base of inner antennæ; f', part of the slender flagellum of same, near its middle; g, scale of outer antennæ; h, part of flagellum of outer antennæ (reversed); i, mandible; h, maxilla of first pair; l, maxilliped of first pair; m, maxilliped of second pair; n, ibid., of outer pair; o, outline of back of abdomen; p, side of one of abdominal segments; q, eggs, natural colour.—p. 598.

Fig. 6 a. Regulus crinitus, enlarged four diameters; b, upper view of beak; c, basal scale of outer antenna; d, extremity of outer maxilliped, inner view; e, row of spines on same; f, extremity of leg of first pair; g, hand; h, extremity of leg of third or fourth pair.—p. 599.

PLATE 40.

Fig. 1. Sicyonia carinata, natural size.—p. 602.

Fig. 2. Penæus carinatus, outline of carapax, natural size.—p. 603.

Fig. 3. Penæus avirostris, outline of carapax, with leg of third pair, natural size.—p. 603.

Fig. 4. Penæus velutinus, enlarged two diameters.—p. 604.

Fig. 5. Penæus Monoceros, outline of carapax, natural size.—p. 605.

Fig. 6. Penæus tenuis, outline of carapax, enlarged two diameters, beak mutilated.—p. 605.

Fig. 7 a. Penæus gracilis, enlarged five and one-half diameters; a', ibid., natural size; b, caudal extremity.—p. 606.

Fig. 8. Stenopus hispidus, natural size.—p. 607.

Fig. 9. Stenopus ensiferus, enlarged five diameters.—p. 607.

Fig. 10 a. Eucopia australis, enlarged three and a half diameters; b, inner antenna; c, outer antenna; d, under view of mouth; e, mandible; f, maxilla of first pair; g, ibid., of second pair; h, maxilliped of second pair (or first pair of legs); i, ibid., of first pair (or second pair of legs); k, next pair; l, one of the posterior pairs of legs; m, abdominal appendage of first pair.—p. 609.

PLATE 41.

Fig. 1 a. Lysiosquilla inornata, natural size; b, mouth; c, mandible, enlarged; d, outline of abdomen; e, nervous cord.—p. 616

Fig. 2 α . Squilla rubro-lineata, natural size; b, part of hand, of larger pair.—p. 618.

Fig. 3 α . Squilla prasino-lineata, part of abdomen; b, eye; c, part of hand.—p. 620.

Fig. 4 a. Pseudosquilla styllfera, natural size; b, inner antennæ; c, outer antenna; d, hand; e, hand of second pair.—p. 622

Fig. 5 a. Gonodactylus chiragra; b, hand.—p. 623.

Fig. 6 a. ERICHTHUS PALLIATUS, enlarged four diameters; b, natural size; c, mouth; d, extremity of leg of first pair; e, hand of one of the short cheliferous legs.—p. 626.

Fig. 7 α . Erichthus Vestitus, young, enlarged eight diameters; b, antenna of first pair; c, ibid., of second pair; d, leg of one of the three posterior pairs.—p. 627.

PLATE 42.

Fig. 1 a. Erichthus spiniger, enlarged six diameters; b, young; c, caudal segment of young.—p. 629.

Fig. 2a. Alima angusta, enlarged four diameters; b, under view; c, maxilliped; d, termination of one of the short feet, near the mouth; c, one of the six posterior thoracic feet; f, one of the abdominal feet.—p. 631.

Fig. 3 a, b, c. Erichthina demissa, young; d, same, still younger.—p. 634.

Fig. 4 a. Euphausia pellucida, enlarged ten diameters; b, eye and base of anterior antenna; c, base of outer antenna; c', part of flagellum of same; d, mandible; e, maxilliped; f, part of a maxilla; g, leg of last thoracic pair; h, extremity of abdomen; i, abdominal leg, with the red spherical gland between the two of a pair; k, one of the posterior branchiæ; l, ovaries, dissected out and partly mutilated, together with two red spherical glands, of glassy aspect, seen at posterior part of cephalothorax in fig. 4 a; l', part of same, natural size; m, m', eggs, as taken from the ovary.—p. 641.

Fig. 5 a. Euphausia splendens, enlarged six diameters; b, extremity of abdomen; c, leg of fourth pair; d, ibid., of sixth pair; e, branchia of last pair; f, abdominal leg of first pair; g, ibid., of second pair; h, ibid., of third pair.—p. 642.

Fig. 6 a. Euphausia gracilis, enlarged five diameters; b, extremity of abdomen, setules of caudal segment, probably lost by mutilation; c, branchia of last pair.—p. 644.

PLATE 43.

Fig. 1 a. Euphausia superba, enlarged two diameters; b, front, with eyes and base of antennæ; c, caudal extremity; d, under view of mouth, as covered by the maxillipeds, and showing the extremities of the mandibular palpi; e, mandible; f, maxilla; g, lower lip; h, shorter branch of abdominal leg of first pair; h', basal portion of the same leg; h'', a process of shorter branch, more enlarged; h''', ciliated natatory lamina of same; i, abdominal leg of second pair; k, basal portion of thoracic leg of third pair; l, stomach, side view; m, same, opened longitudinally above and showing inside, the view as seen by transmitted light, the dark parts being thickest; n, liver and duct; n', section of same; o, branchia of posterior pair; o', extremity of one of the branchlets of the same.—p. 645.

Fig. 2 α. Cyrtopia rostrata, enlarged seven diameters; α', natural size; b, caudal extremity.—p. 648.

Fig. 3 a. Cyrtopia detruncata, immature; b, eyes and inner antennæ; e, caudal extremity; e', part of caudal segment, more enlarged; d, outer antenna; e, extremity of mandible; f, g, maxillæ; h, leg of antepenult pair; i, ibid., of penult pair; k, ibid., of last pair; l, part of liver.—p. 649.

Fig. 4 a. Promysis orientalis, enlarged fourteen diameters; b, caudal lamellæ, the caudal segment removed; c, caudal segment; c', same, oblique lateral view.—p. 651.

Fig. 5 a. MACROMYSIS GRACILIS, enlarged six diameters; b, caudal extremity; b', inner caudal lamella; c, base of inner antenna; d, base of outer antenna; e, one of the thoracic legs; f, one of the scales of the ovarian pouch; g, h, i, k, l, m, young, in different states.—p. 653.

Fig. 6 a. SIRIELLA VITREA, enlarged twenty diameters; b, lateral view; c, c', mandible, in different positions; d, maxilla of first pair; e, maxilla of second pair; f, lower lip; g, inner antenna; h, outer antenna; i, leg of first pair; k, leg of second pair; l, leg of one of six posterior pairs; m, extremity of leg of last pair.—p. 656.

PLATE 44.

Fig. 1 a. Striella gracilis, male, enlarged twelve diameters; b, posterior part of cephalothorax of a female; c, caudal extremity; d, maxilla of first pair; e, maxilliped; f, leg of first pair; f', fouette, attached at base; g, one of the posterior thoracic legs.—p. 658.

Fig. 2 a. Siriella gracilis (?), male, enlarged twelve diameters (length of specimen, four lines); b, caudal extremity; c, part of abdomen, preceding the caudal segment, in profile.—p. 658.

Fig. 3 a. Siriella brevipes, enlarged twenty diameters; b, caudal extremity.—p. 660.

Fig. 4 a. Loxopis tridens, enlarged eight diameters; b, head, upper view; e, caudal extremity.—p. 661.

Fig. 5. Sceletina armata, enlarged twenty diameters.—p. 663. Fig. 6. Sceletina laticers, enlarged twenty-four diameters.—

p. 664. Fig. 7 a. Sceletina orientalis, enlarged ten diameters; b, dorsal view of carapax; c, caudal extremity; d, palpus or shorter

branch of legs.—p. 665.

Fig. 8 a, b. Rachitla spinalis, young, enlarged twenty diameters; c, caudal extremity.—p. 667.

Fig. 9 a. Lucifer Acestra, male, enlarged four diameters; b, anterior half, more enlarged; c, side view of caudal extremity in

male; c', caudal segment, upper view; d, mandible; e, f, maxillæ of first and second pairs; g, outer maxillipeds; h, posterior extremity of cephalothorax, showing a glassy gland, m', which had been exserted by pressure; m'', same organ, as it appeared after it had been a short time detached from the animal; i, outline of posterior part of thorax of female.—p. 671.

PLATE 45.

Fig. 1 a. Lucifer Reynaudi, female, enlarged; b, extremity of abdomen of same, in profile; c, ibid., of male; d, profile of cephalothorax of male.—p. 672.

Fig. 2. Lucifer pacificus, enlarged.—p. 673.

Fig. 3 a. Lucifer acicularis, enlarged; b, side view of extremity of abdomen; c, dorsal view; d, base of posterior legs, with rudiments of a palpus.—p. 674.

Fig. 4 a. Furcilia macrophthalma, enlarged; b, caudal extremity.—p. 676.

Fig. 5 a. Furcilia abbreviata, enlarged; b, eaudal extremity. —p. 677.

Fig. 6 a. Furcilia microphthalma, enlarged; b, caudal extremity; c, inner antenna; d, outer antenna; e, thoracic leg of second pair; f, ibid., of third pair; g, ibid., of fourth pair; \hbar , ibid., of fifth pair.—p. 678.

Fig. 7 a. Furcilia gracilis, enlarged; b, caudal extremity; e, inner antenna; d, outer, ibid.; e, f, g, h, thoracic legs in succession.—p. 679.

Fig 8. Furcilia ———?—p. 680.

Fig. 9 a. Calyptopis integriffons, enlarged; b, upper view of front; e, caudal extremity; d, inner antenna; e, outer antenna; f, mandible; g, leg of first pair; h, ibid., of second pair; i, ibid., of third pair.—p. 681.

Fig. 10 a. Zoea echinus, enlarged; b, vertical view of carapax (1, the beak; 2, posterior spine; 3, 4, lateral spines; 5, 6, antennæ); c, leg of first pair.—p. 682.

Fig. 11 α . Zoea rubella, caudal extremity; b, outer antenna; c, mandible; d, maxilliped; e, ciliate lobed plates, seen just anterior to legs of first pair, and supposed to be attached to their base; f, feet of first pair; g, ibid., of second pair; h, ibid., of third pair; i, ibid., of fourth pair; k, one of four posterior pairs.—p. 683.

Fig. 12 a. Zoea longispina, enlarged; a', same, natural size; b, extremity of superior antenna; c, caudal extremity.—p. 684.

II. TETRADECAPODA.

PLATE 46.

Fig. 1 a. Idotæa argentea, enlarged four diameters; b, c, antennæ, more enlarged; d, mouth; e, one of the legs; f, opercular plates of abdomen; g, young, probably of this species; h, from a New Zealand specimen, probably this species, outer antenna; i, ibid., leg of fourth pair.—p. 698, 699.

Fig. 2 a. IDOTÆA MARGARITACEA, enlarged three diameters; b, caudal extremity; c, outer antenna; d, extremity of the flagel-lum of another specimen.—p. 700.

Fig. 3 α. IDOTÆA ANNULATA, enlarged two and a half diameters; b, c, antennæ; d, leg of first pair; e, ibid., of third pair.—p. 701.

Fig. 4 a. Idotæa brevicauda, enlarged three diameters; b, part of flagellum of outer antenna.—p. 702.

Fig. 5 a. I. BREVICAUDA (?), young; b, leg of fifth pair; c, opercular plate of abdomen.—p. 703.

Fig. 6 a. IDOTÆA OCCIDENTALIS, natural size; b, inner antenna; c, leg of last pair, enlarged three and a half diameters.—p. 704. [As the name hirtipes is preoccupied, it is here changed to occidentalis.]

Fig. 7 a. IDOTÆA STRICTA, enlarged two diameters; b, leg of seventh pair.—p. 704.

Fig. 8 a. Epelys annulatus, enlarged four and a half diameters; b, inner antenna; c, outer antenna; d, mandible, in one view; d', extremity of same, in another; e, inner maxilla; f, maxilliped; g, leg of fourth pair.—p. 706.

Fig. 9 a. CLEANTIS LINEARIS, enlarged one and a half diameters; b, inner antenna; c, extremity of outer; d, under view of head, showing maxillipeds; e, mandible; f, maxilla of first pair; g, ibid., of second pair; h, appendage of first abdominal pair; i, ibid., of second pair; k, outer or opercular pair; l, tarsus.—p. 708.

Fig. 10. Erichsonia angulata, enlarged three diameters.—p. 10.

Fig. 11 a. Chethla ovata, enlarged one and a half diameters; b, part of head, with antennæ; c, leg of one of three anterior pairs; d, ibid., of fourth pair; e, ibid., of fifth pair; f, one of opercular abdominal plates.—p. 712.

PLATE 47.

Fig. 1 α . Tylus spinulosus, enlarged four diameters; b, part of outer antenna, enlarged twenty-four diameters; c, caudal lamellæ.—p. 717.

Fig. 2 a. Armadillo speciosus, natural size; b, under view of abdomen; c, caudal stylets (or lamellæ) separated from the abdomen and much enlarged; d, antenna.—p. 718.

Fig. 3 a. Spherillo (?) Monolinus, enlarged four diameters; b, antenna; c, leg of posterior pair; d, extremity of abdomen, under view, showing caudal lamellæ, the outer appendage of the lamellæ not being represented (perhaps, but not probably obsolete).—p. 719.

Fig. 4 a. Spherillo vitiensis, enlarged five diameters; b, antenna; c, leg of fifth or sixth pair; d, caudal lamella, with b, the inner appendage, and a, the outer.—p. 721.

Fig. 5 a. Spherillo hawaiensis, enlarged three diameters; b, antenna; c, leg of fifth pair; d, under view of abdomen; e, caudal extremity, upper view, showing caudal lamella (e), with the outer appendage (a), the inner appendage being shown in fig. 5 d.—p. 722.

Fig. 6 a, b. Spherillo spinosus, enlarged five diameters; c, under view of head; d, spine of surface of body; e, caudal extremity, upper view, showing part of the caudal lamellæ (c, c), and

the outer appendage, a; f, under view of caudal lamellæ, showing both outer (a) and inner (b) of the appendages or branches; g, part of antenna, much enlarged.—p. 723.

Fig. 7 a. Porcellio Gemmulatus, enlarged four diameters (dots in the figure, a little too seriate); b, extremity of antenna; c, apex of same; d, leg of second pair, enlarged; e, f, g, spines of under surface of same leg, from fourth joint.—p. 725.

Fig. 8 a. Porcellio (?) fuegiensis, enlarged four diameters; b, part of body, with the posterior thoracic segments bent down on either side as in some preserved specimens; c, extremity of abdomen; d, extremity of leg of last pair.—p. 726.

Fig. 9 a. Porcellio chilensis, enlarged three diameters; b, base of antenna; c, extremity of antenna; d, extremity of leg of first pair, in outline; e, caudal stylets.—p. 727.

Fig. 10. Porcellio (?) hawaiensis, enlarged three diameters. —p. 728.

Fig. 11 a. Porcellio ———? enlarged four and a half diameters; b, extremity of antenna; c, apex of same.—p. 732. [It is incorrectly called a Philoscia on p. 732; and in the reference to 11 c, "second joint of" should be omitted.]

PLATE 48.

Fig. 1 a. Oniscus nigrescens, enlarged one and a half diameters; b, abdomen, under view; c, outer maxilliped.—p. 728.

Fig. 2 α . Oniscus pubescens, enlarged three and a half diameters; b, antenna; c, leg of sixth pair; d, caudal stylet.—p. 730.

Fig. 3 a. Oniscus? Angustus, enlarged six diameters, mutilated in its antennæ; b, outer maxilliped; c, extremity of leg of first pair; d, ibid., of last pair.—p. 731.

Fig. 4 a. Oniscus? Maculatus, enlarged six diameters, mutilated; b, outer maxilliped; c, extremity of leg of last pair, upper view; d, ibid., lateral view; e, tarsus of same, more enlarged; f, caudal stylet.—p. 731.

Fig. 5 a. Scyphax ornatus, enlarged two diameters; b, antenna; b', part of same, more enlarged; c, c', mandible; d, e, maxillæ; f, maxillipeds; g, g', lower lip; h, h', last pair of thoracic feet, from different specimens; i, abdominal appendages of second pair; k, l, ibid., of third and fourth pairs; m, ibid., of fifth pair; n, one of sixth pair or caudal stylet, much enlarged; o, part of leg of sixth pair; p, ibid., of seventh pair.—p. 734.

Fig. 6 α . Scyphax ornatus, jun. (?), animal, enlarged three diameters; b, outline of back; c, outline of head, in upper view; d, abdomen, upper view; e, antenna, enlarged; f, outer maxilliped; g, extremity of one of the legs; h, caudal appendages, under view.—p. 735.

Fig. 7 a. Styloniscus magellanicus, enlarged three diameters; b, antenna; c, extremity of same; d, maxilliped; e, maxilla of second pair; f, extremity of leg of seventh pair; g, caudal stylet.—p. 736.

Fig. 8 a. Styloniscus longistylis, enlarged four diameters; b, part of flagellum of antenna, more enlarged.—p. 737.

PLATE 49.

Fig. 1 a. Lygia Ehrenbergii, enlarged one and a half diameters; b, abdomen, more enlarged; c, to g, abdominal appendages of the five pairs in succession.—p. 738.

Fig. 2 a. Lygia novi-zealandle, enlarged two and a half diameters; b, part of flagellum of antenna, more enlarged; c, out-

line of extremity of abdomen; d, part of larger seta of stylet.—p. 739.

Fig. 3. Lygia australiensis, extremity of abdomen, much enlarged.—p. 740.

Fig. 4 a. Lygia hawaiensis, enlarged three diameters (mutilated in caudal stylets); b, part of basal half of flagellum of antenna; c, ibid., from apical half; d, extremity of leg of seventh pair; e, outline of extremity of abdomen, more enlarged.—p. 740.

Fig. 5 a. Lygia vitiensis, outline of extremity of abdomen; b, leg of fifth pair.—p. 741.

Fig. 6 a. Lygia Gaudichaudhi? head and first segment following; b, extremity of abdomen; c, caudal stylet; d, base of antenna; e, basal part of flagellum, more enlarged; f, apical part of same; g, tarsus of leg of sixth or seventh pair; h, outline of eye, in lateral view.—p. 741.

Fig. 7 a. Lygia occidentalis, abdomen, enlarged; b, part of base of antenna; c, basal part of flagellum; d, apex of same; e, tarsus of leg of sixth or seventh pair.—p. 742.

Fig. 8 a. Lygia cursor, abdomen, enlarged (stylets wanting); b, antenna; c, extremity of flagellum, more enlarged.—p. 743.

Fig. 9 a. Jæra pubescens, enlarged ten diameters; b, part of flagellum of outer antenna; c, extremity of leg; d, abdomen.—p. 744.

Fig. 10 a. Cymothol excisl, enlarged one and a half diameters; b, ventral view; c, leg of seventh pair; d, caudal appendage.—p. 749.

Fig. 11 a, b. Cymothoa excisa, var. compressa.—p. 750.

Fig. 12 a. Cymothol frontalis? natural size; b, extremity of abdomen.—p. 750.

Fig. 13 a. CYMOTHOA RECTA, enlarged two diameters; b, leg of fourth pair; c, ibid., of fifth pair.—p. 751.

PLATE 50.

Fig. 1 a. Ceratothoa linearis, enlarged one and a half diameters; b, ventral view; c, under view of head; d, mandible.—p. 752.

Fig. 2 a. Ceratothoa crassa, enlarged one and a half diameters; b, stylets, ibid.; \mathcal{V} , same, more enlarged; c, leg of sixth pair.—p. 753.

Fig. 3 a. Livoneca longistylis, natural size; b, caudal appendage.—p. 754.

Fig. 4 a. Livoneca emarginata, natural size; b, caudal appendage.—p. 755.

Fig. 5 a. Lavoneca lata, enlarged one and a half diameters; b, lateral view, showing fourth, fifth, sixth, and seventh epimerals, left side; c, caudal stylet.—p. 756.

Fig. 6 a. Nerocila lata, natural size; b, ventral view; c, antenna of first pair; ibid., of second pair.—p. 757.

Fig. 7 a. Nerocila latiuscula, enlarged one and a half diameters; b, side view, showing epimerals.—p. 758.

Fig. 8 a. Nerocilla brasiliensis, enlarged one and one-third diameters; b, antenna of first pair; c, ibid., of second pair; d, caudal appendage; e, side view, showing epimerals.—p. 759.

Fig. 9 a. Nerocila aculeata, enlarged one and one-third diameters; b, anterior antenna; c, caudal stylet.—p. 760.

Fig. 10 a. Nerocila armata, natural size; b, under view; c_r side view; d_r stylet.—p. 761.

Fig. 11 a. Nerocila tenuires, enlarged one and a half diameters; b, under view; c, side view; d, antennæ; e, elaw of legs; f, caudal appendage.—p. 762.

Fig. 12 a. ÆGATHOA MACROPHTHALMA, enlarged three diameters;

leg of fifth pair; d, leg of seventh pair; e, caudal stylet.—p. 764.

Fig. 13. ÆGATHOA LATICEPS, enlarged three diameters.—p. 765.

PLATE 51.

Fig. 1 a. ÆGA EFFERATA, enlarged four diameters; b, antennæ; c, leg of one of the three anterior pairs; d, ibid., of one of the four posterior pairs; e, caudal appendage.—p. 766.

Fig. 2 a. ÆGA NOVI-ZEALANDIÆ, enlarged four diameters; b, anterior antenna; c, posterior antenna.—p. 767.

Fig. 3 α . ÆGA MULTIDIGITA, enlarged five diameters; b, antennæ; c, leg of first pair; d, extremity of leg of second pair; e, ibid., of third pair; f, ibid., of sixth pair.—p. 768.

Fig. 4 a. Pterelas magnificus, enlarged one and a half diameters; b, front view of front; c, leg of second pair; d, leg of seventh pair; e, epimeral of first segment; f, ibid., of seventh segment; g, caudal appendage.—p. 769.

Fig. 5 a. Cirolana armata, anterior extremity of body, much enlarged, the antennæ, except part of basal joint, being concealed beneath; b, posterior, ibid.; c, part of flagellum of second antennæ; d, leg of third pair; e, leg of sixth or seventh pair.—p. 771.

Fig. 6 a. Cirolana latistylis, abdomen, much enlarged; b, part of flagellum of longer antennæ; c, leg of third pair.—p. 772.

Fig. 7 a. CIROLANA ORIENTALIS, anterior extremity of body, much enlarged; b, posterior, ibid.; c, leg of first pair; d, ibid., of fifth pair.—p. 773.

Fig. 8 α . Corallana hirticauda, enlarged three and a half diameters; b, head, seen from above (facets of the eyes not indicated); c, ibid., seen obliquely from above and forward, showing its actual form and the position of the antennæ; d, antennæ $(a^i,$ a2), with the epistome (e); e, extremity of leg of fifth pair.—p. 774.

PLATE 52.

Fig. 1. Spheroma gigas, outline of abdomen, under view, much enlarged, New Zealand specimen; 1 a, under view of mouth and epistome, of Fuejean specimen, var. lanceolata, of White; b, mandible, ibid.; c, extremity of same, in different position; d, lower lip, ibid.; e, maxilla of first pair; f, ibid., of second pair.—p. 775.

Fig. 2 α . Spheroma calcarea, enlarged one and a half diameters; b, mouth and epistome; c, inferior antenna.—p. 776.

Fig. 3 a. Spheroma chilensis, enlarged six diameters; b, outline of abdomen, under view; c, antenna of first pair.—p. 777.

Fig. 4 α . Spheroma oregonensis, enlarged three diameters; b, part of antenna of second pair; c, outline of abdomen, under view.—p. 778.

Fig. $\bar{5}~a.$ Spheroma obtusa, enlarged four diameters; b, abdomen, under view.—p. 779.

Fig. 6. Spheroma verrucauda, outline of abdomen, under view.—p. 779.

Fig. 7. Spheroma armata, outline of abdomen, under view.—

Fig. 8. a. Spheroma spinigera, enlarged three and a half diameters; b, under view of antennæ; c, abdomen in outline, under view.-p. 780.

Fig. 9 α . Spheroma globicauda, enlarged six diameters; b, abdomen, more enlarged.—p. 781.

Fig. 10 a. Spheroma Savignii, enlarged six diameters; b, part

b, oblique side view of part of abdomen, showing epimerals; c, | of flagellum of antenna of second pair; c, antenna of first pair; d, margin of thoracic segments, much enlarged.—p. 782.

Fig. 11 a. Spheroma orientalis, enlarged twelve diameters; b, part of leg of one of three posterior pairs; c, lateral profile of abdomen, showing the abrupt depression on upper side, just behind its middle; d, under view.—p. 783.

Fig. 12 a. Cassidina latistylis, enlarged two diameters; b, under view of abdomen; c, caudal appendage, upper view; d, under view of head; e, extremity of leg of fourth pair.—p. 784.

Fig. 13 a. Amphoroidea typica, enlarged one and a half diameters; b, under view of head; c, abdomen, under view; d, mandible; d', profile of its extremity; e, maxilliped.—p. 785.

Fig. 14 a. Amphoroidea australiensis, a, head, much enlarged; b, extremity of abdomen, upper view; c, ibid., under view; d, basal portion of antennæ of second pair.—p. 789.

PLATE 53.

Fig. 1 a. Serolis planus, male, enlarged two diameters; b, opercular plates; c, part of flagellum of inferior antenna.—p. 794.

Fig. 2 a. Leachia nodosa, enlarged six diameters; a, same, natural size; b, dorsal view; c, one of the anterior legs.—p. 795.

Fig. 3 a. Tanais (Paratanais?) brasiliensis, enlarged six diameters; b, eye; c, caudal stylet; d, antenna of second pair; e, leg of first pair; f, ibid., of second pair; g, ibid., of one of three posterior pairs.—p. 797.

Fig. 4 a. Paratanais elongatus, enlarged twenty diameters; $b,\, {\rm antenn}\varpi\,;\,\, c,\, {\rm leg}$ of first pair; $c',\, {\rm hand}$ of same; $\,d,\, {\rm leg}$ of second pair; e, caudal stylet.—p. 799.

Fig. 5 a. Leptochelia minuta, enlarged sixteen diameters; b, same, inside view; c, leg of last pair; d, caudal stylet.—p. 800.

Fig. 6 a. Cryptothir minutus, enlarged; b, inner antenna; c, outer, ibid.; d, leg of second pair.—p. 802.

Fig. 7 a. Argeia pugettensis, male, enlarged twenty-four diameters (length one line); a', extremity of leg; b, c, female; d, leg of fourth pair of female; d', same, in another position; e, leg of fifth pair; e', same, in a different position.—p. 804.

PLATE 54.

Fig. 1 a. Proto elongatus, male, enlarged five diameters; b, hand of first pair; c, ibid., of second pair; d, mandible; e, lip; f, maxilla of second pair; g, maxilliped; h, abdomen; i, female; k, antenna of first pair, ibid.—p. 809.

Fig. 2 a. Protella gracilis, male, enlarged two and a half diameters; a', same, natural size, on a coral; b, part of flagellum of superior antennæ; c, extremity of leg of last pair; d, female; d', part of flagellum of superior antenna, ibid.; e, head of another variety; f, hand of second pair in female.—p. 812.

Fig. 3 a. Caprella dilatata, enlarged three diameters; b, head, side view; c, hand of second pair; d, abdomen; e, part of flagellum of superior antennæ, much enlarged.—p. 813.

Fig. 4 a, b. Caprella robusta, male, enlarged four diameter c, part of female; d, hand of second pair in another specimen; e, extremity of leg of fifth pair, much enlarged.—p. 814.

Fig. 5 a, b. Caprella cornuta, enlarged four diameters; c, part of flagellum of superior antennæ; d, third thoracic segment; e, hand of first pair; f, ibid., of second pair; g, extremity of leg of last pair.—p. 816.

Fig. 6. C. CORNUTA, var. OBTUSIROSTRIS, enlarged five diameters. --р. 817.

PLATE 55.

Fig. 1 a, b. Caprella attenuata, male, enlarged four diameters; c, another variety (var. subtenuis); d, flagellum of superior antenna of same; e, extremity of inferior, ibid.; f, finger of anterior hands; g, hand of second pair.—p. 817.

Fig. 2 a. CAPRELLA JANUARII, male, enlarged two and a half diameters; b, female of same? c, part of flagellum of superior antenna; d, extremity of inferior pair; e, hand of second pair; f, extremity of leg of last pair.—p. 819.

Fig. 3. Caprella globiceps, enlarged four diameters.—p. 820. Fig. 4. ÆGINA? TENELLA, enlarged four diameters.—p. 822.

Fig. 5 a. ÆGINA? ACULEATA, enlarged four diameters (fem. of tenella?); b, part of flagellum of superior antenna.—p. 823.

Fig. 6 a. CLYDONIA GRACILIS, enlarged eight diameters; b, eye.

Fig. 7 a. Clydonia longipes, enlarged five diameters, one antenna and caudal stylets partly mutilated; b, outline of front, in vertical view.—p. 835.

Fig. 8. Corophium? Quadriceps, imperfectly figured, twentyfour diameters.—p. 836.

Fig. 9 a. Platophium brasiliense, male, upper view, enlarged eight diameters; b, lateral view, ibid.; c, flagellum of superior antenna, ibid.; d, tarsus of one of the six posterior legs; e, extremity of abdomen, upper view, ibid.; f, same, side view:—g, female, enlarged eight diameters; h, leg of first pair, ibid.; i, ibid., second pair; k, oblique view of hand; l, extremity of one of the other legs.—p. 838.

PLATE 56.

Fig. 1 a. Cyrtophium orientale, lateral view, unfinished, enlarged twelve diameters; b, upper view; c, leg of seventh pair; d, extremity of abdomen, upper view.—p. 840.

Fig. 2 a. Cratophium validum, male, enlarged five diameters; b, part of superior antenna, ibid.; c, leg of first pair, ibid.; d, leg of fifth pair, ibid.; e, extremity of abdomen, upper view, ibid.; f, caudal stylet of last pair and caudal segment, upper view, ibid.; g_i same, side view:—h, female; i, mandibular palpus, female; k, maxillipeds, ibid.; l, leg of first pair, ibid.; m, second pair, ibid.; n, third or fourth pair, ibid.; o, sixth or seventh pair, ibid.—p. 841.

Fig. 3 α . Cratophium orientale, enlarged seven diameters; b, hand of second pair.—p. 843.

Fig. 4 α . Icilius ellipticus, enlarged eight diameters; b, abdomen, extended straight; c, outline of part of same, side view; d, mandible; e, maxilla of first pair; f, ibid., of second pair; g, maxilliped.—p. 844.

Fig. 5 a. Orchestia (Talitrus?) novi-zealandiæ, enlarged three diameters; b, lower lip; c, mandible; d, maxilla of first pair; e, ibid., of second pair; f, maxillipeds; g, part of flagellum of antenna of second pair; h, extremity of leg of first pair; i, ibid., of second pair; k, ibid., of third pair; l, fifth pair.—p. 852.

Fig. 6 a. Orchestia (Talitrus?) brevicornis, antennæ, enlarged; b, extremity of second pair; c, ibid., of second pair of legs; d, ibid., of fourth pair; e, ibid., of fifth pair; f, ibid., of of seventh pair.—p. 870. sixth pair; g, stylets of first pair.—p. 854.

PLATE 57.

n to r, female.—1 a, male, enlarged; b, mandible; c, maxilla of first pair; d, ibid., of second pair; e, maxillipeds; f, leg of first pair; g, hand of second pair; h, leg of fifth pair; i, side view of head; k, front view, ibid.; l, under view, ibid.; m, view of lower part of same from behind.—n, female, enlarged; o, extremity of leg of sixth pair; p, ibid., of seventh pair; p', same, more enlarged; q, extremity of second pair; r, ibid., of first pair.—p.

Fig. 2 α . Orchestia (Talitrus) brasiliensis, female, enlarged; b, antenna of first pair; c, part of flagellum of second pair; d, extremity of same, more enlarged; e, extremity of leg of second pair; f, ibid., of fifth pair; g, ibid., of sixth pair; h, hand of male.—p. 857.

Fig. 3 a. Orchestia (Talitrus) pugettensis, female, enlarged; b, part of flagellum of inferior antennæ; c, leg of second pair; d, part of leg of sixth or seventh pair.—p. 859.

Fig. 4 a. Orchestia (Talitrus?) scabripes, male, enlarged; b, extremity of leg of seventh pair.—p. 860.

Fig. 5. Orchestia (Talorchestia) gracilis: a to f, female; gto m, male.—5 a, female, enlarged; b, portion of flagellum of inferior antenna; c, extremity of leg of second pair; d, ibid., of third pair; e, ibid., of fourth pair; f, caudal stylets of fifth pair. g, male, enlarged; h, extremity of leg of first pair; i, hand of second pair; k, extremity of leg of third pair; l, ibid., of fourth pair; m, third pair of stylets and extremity of abdomen.—p. 861.

PLATE 58.

Fig. 1 a. Orchestia (Talorchestia?) Quoyana, enlarged five diameters; b, part of inferior antenna, more enlarged.—p. 863.

Fig. 2 a. Orchestia scutigerula, enlarged two and a half diameters, male; a', part of flagellum of inferior antenna, ibid.; b, mandible, ibid.; e, d, maxillæ, ibid.; e, maxillipeds, ibid.; f, leg of first pair, ibid.; g, ibid., of seventh pair, ibid.; h, side view of head, of a female; i, leg of first pair, ibid.; k, ibid., of second pair, ibid.; l, ibid., of seventh pair, ibid.; m, caudal segment.—p.

Fig. 3 α . Orchestia capensis, male, enlarged four diameters; b, part of flagellum of outer antenna.—p. 866.

Fig. 4 a. Orchestia chilensis? enlarged four diameters; b, part of flagellum of inferior antenna; c, extremity of leg of first pair; d, ibid., of second pair; e, ibid., of fourth pair.—p. 867.

Fig. 5 a. Orchestia nitida, enlarged five diameters; b, part of flagellum of inferior antennæ; c, superior antenna; d, extremity of leg of first pair; e, ibid., of third pair; f, ibid., of sixth pair.

Fig. 6 a. Female of Orchestia Nitida, part of anterior legs, the extremity mutilated; b, second pair; c, extremity of hand of second pair; d, extremity of leg of sixth pair.—p. 870.

Fig. 7 a. Orchestia serrulata, male, enlarged two and a half diameters; b, b', mandible, in different positions; c, d, maxillæ; e, maxillipeds; f, superior antenna; g, part of flagellum of same; h, hand of first pair; i, hand of second pair; k, posterior margin of first joint of seventh pair; l, extremity of seventh pair.—m, female, part of leg of first pair; n, ibid., of second pair; o, ibid.,

PLATE 59.

Fig. 1 a. Orchestia tenuis, enlarged three diameters; b, man-Fig. 1. Orchestia (Talitrus) insculpta: figs. 1 a to m, male; dible; b', molar prominence of mandible; c, maxilla, first pair; d, ibid., second pair; e, maxillipeds; f, part of flagellum of inferior antenna; g, hand of second pair of feet.—p. 872.

Fig. 2 a. Orchestia sylvicola, enlarged three diameters; b, mandible; c, d, maxillæ; e, maxillipeds; f, part of flagellum of inferior antennæ; g, hand of second pair; h, superior antennæ.—p. 873.

Fig. 3 a. Male of Orchestia sylvicola? enlarged; b, side view of head; c, part of flagellum of outer antenna; d, extremity of leg of first pair; e, ibid., of second pair; f, ibid., of third pair; g, ibid., of seventh pair; h, stylet of first pair.—p. 875.

Fig. 4 a. Orchestia spinipalma, male, enlarged four diameters; b, part of flagellum of inferior antenna; c, hand of second pair; d, extremity of leg of last pair; e, ibid., of second pair in female.—p. 875.

Fig. 5 a. Orchestia tahltensis, female, enlarged five diameters; b, mandible; c, d, maxillæ; e, maxillipeds; f, antennæ; g, extremity of leg of second pair.—p. 877.

Fig. 6 a. Orchestia dispar, enlarged four diameters; b, mandible; c, d, maxillæ; e, maxillipeds; f, part of flagellum of inferior antennæ; g, hand of first pair; h, ibid., of second pair; i, leg of seventh pair; k, stylet of first pair; l, ibid., of last pair; m, side view of extremity of abdomen.—p. 878.

Fig. 7 α . Orchestia quadrimana, enlarged three diameters; b, part of flagellum of inferior antenna; c, maxilla of first pair; d, ibid., of second pair; e, maxillipeds; f, hand of first pair.—p. 879.

Fig. 8 a. Orchestia hawaiensis, female, enlarged three diameters; b, antenna of first pair; c, part of flagellum of antenna of second pair; d, extremity of leg of first pair; e, ibid., of second pair; f, ibid., of seventh pair; g, stylet of first pair.—p. 880.

Fig. 9 a. Orchestia Pickeringhi, male, enlarged four diameters; b, antenna of superior pair; c, part of flagellum of inferior pair; d, extremity of leg of first pair; e, ibid., of second pair; f, ibid., of seventh pair.—p. 882.

PLATE 60.

Fig. 1 a. Allorchestes Gaimardii, enlarged four diameters; b. mandible; c, maxilla of first pair; d, ibid. of second pair; e, maxillipeds; f, flagellum of inferior antennæ; g, part of flagellum of superior, ibid.; h, extremity of leg of sixth pair; i, posterior caudal stylet.—p. 884.

Fig. 2 a. Allorchestes verticillata, male, enlarged five diameters; b, part of flagellum of second or inferior antenna; c, mandible; d, maxilla of second pair; e, maxillipeds; f, extremity of leg of first pair; g, ibid., of last pair.—p. 886.

Fig. 3 a. Allorchestes verticillata (?), female, enlarged six diameters; b, c, d, e, parts of the mouth; f, part of flagellum of inferior antenna; g, ibid., from another specimen; h, part of flagellum of inferior antenna, ibid.; i, hand of second pair, ibid.; k, extremity of seventh pair, ibid.—p. 887.

Fig. 4 α . Allorchestes hirtipalma, enlarged five diameters; b, part of flagellum of inferior antenna; c, c', maxilla, in different positions; d, maxilla of second pair; e, maxillipeds; f, hand of leg of second pair; g, ibid., of first pair; h, part of leg of sixth pair; i, posterior stylet.—p. 888.

Fig. 5 a. Allorchestes gracilis, enlarged three diameters; b, part of flagellum of inferior antenna; c, hand of leg of first pair; d, ibid., of second pair.—p. 889.

Fig. 6 a. Allorchestes humilis, enlarged six diameters; b, mandible; c, maxilla of first pair; d, ibid., of second pair; e, maxillipeds.—p. 890.

Fig. 7 a. Allorchestes australis, enlarged three and a half diameters; b, mandible; c, maxilla of first pair; d, ibid., of second pair; e, maxillipeds; f, lower lip; g, inferior antenna; h, superior, ibid.; i, leg of first pair; k, ibid., of second pair; l, ibid., of fifth pair; m, stylet of first pair; n, ibid., of second pair; o, ibid., of third or last pair.—p. 892.

Fig. 8 a. Allorchestes brevicornis, enlarged four diameters; b, mandible; c, maxilla of first pair; d, ibid., of second pair; e, maxillipeds; f, part of flagellum of inferior antenna; g, hand of leg of first pair; h, ibid., of second pair.—p. 893.

PLATE 61.

Fig. 1. Allorchestes novi-zealandle: 1 a to f, male; g to v, female.—1 a, enlarged five diameters; b, part of flagellum of superior antenna; c, ibid., of inferior, ibid.; d, hand of leg of first pair; e, ibid., of second pair; f, part of fifth pair.—g, female, enlarged five diameters; h, i, k, l, m, parts of the mouth; n, leg of first pair; o, ibid., of second pair; p, ibid., of fifth pair; q, ibid., of seventh pair; r, stylet of first pair; s, antennæ of a young female; t, part of leg of first pair, ibid.; u, ibid., of second pair, ibid.; v, ibid., of fifth pair, ibid.—p. 895.

Fig. 2 a. Allorchestes orientalis, enlarged six diameters; b, mandible; c, maxilla of first pair; d, ibid., of second pair; e, maxilliped; f, part of flagellum of superior antenna; g, ibid., of inferior, ibid.; h, hand of leg of second pair.—p. 898.

Fig. 3 a. Allorchestes (?) graminea, enlarged three diameters; b, leg of sixth pair.—p. 898.

Fig. 4 a. Allorchestes media, male, enlarged five diameters; b, part of flagellum of superior antenna; c, ibid., of inferior, ibid., inner side; d, ibid., outer side; e, mandible; f, maxilliped; g, part of leg of first pair, male; h, ibid., of second pair; i, ibid., of fourth pair; k, ibid., of fifth pair; l, ibid., of seventh pair; m, stylet of posterior pair; n, leg of first pair in a smaller specimen.—p. 898.

Fig. 5 a. Allorchestes hawaiensis, enlarged six diameters; b, part of flagellum of superior antenna; c, ibid., of inferior, ibid.; d, extremity of maxilliped; e, part of leg of first pair; f, ibid., of second pair; g, ibid., of third or fourth pair; h, stylet of first pair.—p. 900.

Fig. 6 a. Allorchestes pugettensis, enlarged four diameters; b, part of flagellum of inferior antenna; c, mandible; d, extremity of maxilliped.—p. 901.

PLATE 62.

Fig. 1 a. Lysianassa? Brasiliensis, enlarged seven diameters; b, superior antenna; c, inferior, ibid.; d, leg of third pair; c, ibid., of fifth pair; f, ibid., of sixth pair.—p. 914.

Fig. 2 a. Lysianassa nasuta, enlarged four diameters; b, head, more enlarged (with t, a keel on the front; m^3 , maxilliped; p, extremity of foot of first pair); c, posterior stylets and extremity of abdomen; d, e, mandible, in different positions; f, maxilla of first pair; g, ibid., of second pair; h, part of leg of first pair; i, ibid., of second pair; k, ibid., of third pair; l, ibid., of fifth pair; m, ibid., of seventh pair.—p. 915.

Fig. 3 a. Uristes gigas, enlarged five diameters; b, mandible; c, d, maxillæ; e, maxillipeds; f, part of flagellum of superior antenna; g, ibid., of inferior pair.—p. 917.

Fig. 4 a. Anonyx fuegiensis, enlarged five diameters; b, mandible; c, d, maxillæ; e, maxillipeds; f, front view of head $(a^{1},$

insertion of superior antennæ; a^2 , base of inferior, ibid.; s, spine, adjoining same; f, piece of shell, below same; b', shell of side of head; e, epistome; l', labrum; p, mandibular palpus; md, mandible; m^3 , maxillipeds; t, lamellar processes of basal joints of same); g, side view of head (lettered like the last, with m^1 , inner maxilla; m^2 , second maxilla; l^2 , lower lip; n, o, parts below base of maxillipeds); h, same, with maxillipeds turned down; i, spinous process at base of inferior antennæ (same as s, in figures d, d, and d); d, part of flagellum of inferior antenna; d, ibid., of superior antenna; d, longer flagellum of same, from another specimen; d, part of leg of first pair; d, ibid., of fourth pair; d, ibid., of fifth pair; d, caudal segment.—p. 919.

Fig. 5 a. Urothoe rostratus, enlarged sixteen diameters; b, upper view of head; c, part of base of inferior antenna; d, part of flagellum of same; e, e', mandible, in different positions; f, maxilla of first pair; g, maxillipeds; g', same, more enlarged; h, leg of second pair; i, ibid., of third or fourth pair; k, ibid., of fifth pair; l, ibid., of sixth pair; m, ibid., of seventh pair; n, abdominal natatory; o, extremity of abdomen, upper view; p, stylets of second pair.—p. 921.

Fig. 6 a. Urothoe irrostratus, anterior part of body, much enlarged; b, part of flagellum of inferior antenna; c, extremity of leg of fourth pair; d, ibid., of fifth pair; e, extremity of same; f, extremity of body.—p. 922.

PLATE 63.

Fig. 1. Stenothoe validus: a to e, male; f to o, female.—1 a, male, enlarged nine diameters; b, part of flagellum of superior antenna; c, maxillipeds; d, leg of first pair; e, ibid., of sixth pair.—f, female, enlarged nine diameters; g, mandible; h, maxilla of first pair; i, part of maxilla of second pair; k, maxillipeds; l, hand of leg of first pair; m, ibid., of second pair; n, leg of seventh pair; o, caudal stylets and extremity of abdomen.—p. 924.

Fig. 2 a. IPHIMEDIA SIMPLEX, enlarged six diameters; b, antenna of superior pair; c, part of flagellum of same, towards extremity; d, e, mandible, in different positions; f, inner maxilla; g, maxillipeds; h, leg of first pair; i, ibid., of third pair.—p. 927.

Fig. 3 a. IPHIMEDIA NODOSA, enlarged six diameters; b, upper view of head.—p. 928.

Fig. 4 a. IPHIMEDIA FISSICAUDA, enlarged; b, b', views of mandible; c, d, maxillæ; e, maxillipeds; f, caudal extremity; g, branchia, in outline.—p. 929.

Fig. 5 a. IPHIMEDIA CAPENSIS, enlarged eight diameters; b, part of flagellum of superior antenna; c, part of palpus of mandible; d, part of leg of first or second pair; e, ibid., of sixth pair; f, caudal extremity; g, stylet of first pair.—p. 931.

Fig. 6 a. IPHIMEDIA PUGETTENSIS, anterior part of body, much enlarged; b, mandible; b', part of palpus, ibid.; c, part of maxilliped; d, hand of second pair; e, third joint of leg of seventh pair; f, extremity of same leg; g, caudal extremity.—p. 932.

Fig. 7 a. ŒDICERUS NOVI-ZEALANDLE, male, enlarged eighteen diameters; b, mandible; c, d, maxillæ; e, extremity of maxilliped; f, lip; g, hand of first pair; h, caudal extremity.—p. 934.

PLATE 64.

Fig. 1 a. Amphithoe Rubella, enlarged eight diameters; b. ibid., more enlarged; c, extremity of leg of sixth pair; d, extremity of abdomen.—p. 936.

Fig. 2 a. Amphitude orientalis, head, enlarged; b, leg of first pair; e, ibid., of second pair; d, ibid., of fourth pair; e, ibid., of seventh pair; f, posterior caudal stylet, side view.—p. 937.

Fig. 3 a. Amphithoe tongensis, enlarged five diameters; b, part of flagellum of superior antenna; c, ibid., of inferior ibid.—p. 939.

Fig. 4 a. Amphithoe peregrina, enlarged seven diameters; b, eye.—p. 940.

Fig. 5 a. Amphithoe brevipes, female, enlarged three diameters; b, c, side and front views of head (a^i , a^2 , antennæ; l', labrum; md, mandible; m', m^2 , maxillæ of first and second pairs; m^3 , maxilliped; p, mandibular palpus); d, posterior caudal stylet; e, mandible; f, maxilla of first pair; g, ibid., of second pair; h, maxilliped; i, hand of female of first or second pair; k, extremity of leg of first pair, in male; l, ibid., of second pair; m, leg of seventh pair; n, caudal stylet of first or second pair.—p. 941.

Fig. 6 a. Amphithoe brasiliensis, enlarged four diameters; b, part of flagellum of superior antennæ; c, ibid., of inferior ibid., from basal half; d, ibid., of inferior ibid., from apical half; e, e', mandible, in different positions; f, maxilla of first pair; g, ibid., of second pair; h, maxilliped; i, part of leg of first pair; k, ibid., of second pair; l, ibid., of fourth pair; m, outer branch of first pair of stylets; n, posterior stylet.—p. 943.

PLATE 65.

Fig. 1 a. Amphithoe filicornis, female, enlarged; b, part of flagellum of superior antenna; c, mandible; d, leg of second pair; e, stylet of posterior pair; f, head and antennæ of a young individual; g, leg of fifth pair of same.—p. 944.

Fig. 2 a. Gammarus asper, enlarged five diameters, antennæ and posterior feet mutilated; b, antenna (part) of superior pair; c, ibid., of inferior pair; d, part of leg of second pair; e, part of palpus of mandible.—p. 945.

Fig. 3 a. Gammarus suluensis, enlarged six diameters; b, b', mandible, in different positions; c, c', inner maxillæ, ibid.; d, maxilla of second pair; e, maxillipeds; f, part of flagellum of superior antenna.—p. 947.

Fig. 4 a. Gammarus albidus, female, enlarged five diameters; b, c, portions of flagella of antennæ; d, hand of second pair, in male.—p. 948.

Fig. 5 a. Gammarus tenuis, enlarged eight diameters; b, part of palpus of mandible; c, hand of first pair.—p. 950.

Fig. 6 a. Gammarus furcicornis, enlarged eight diameters; b, part of flagellum of superior antennæ.—p. 951.

Fig. 7 α . Gammarus tenellus, enlarged five diameters; b, part of flagellum of superior antennæ; c, hand of first pair; d, leg of sixth pair; e, extremity of abdomen, with stylets of first and second pairs.—p. 952.

Fig. 8 a. Gammarus fuegiensis, enlarged six diameters; b, part of flagellum of first pair; c, appendage of first pair; d, extremity of second pair; e, part of leg of first pair; f, ibid., of second pair; g, ibid., of third or fourth pair; h, caudal extremity, in profile.—p. 954.

Fig. 9 a. Gammarus quadrimanus, enlarged; b, part of flagellum of superior antenna; c, extremity of leg of first pair; c', same, of size corresponding to 9 a; d, tarsus of leg of fourth pair; e, leg of seventh pair; f, stylet of second pair; g, ibid., of third pair.—p. 955.

Fig. 10 a. Gammarus brasiliensis, male, enlarged eight diameters; b, part of flagellum of superior antenna; c, extremity of mandibular palpus; d, part of leg of fourth pair; e, hand of

respond with the figure of the male, 10 a.-p. 956.

PLATE 66.

Fig. 1 a. Gammarus pugettensis, enlarged six or seven diameters; b, part of flagellum of superior antenna, with the appendage; c, same flagellum, towards apex; d, part of flagellum of inferior pair; e, leg of second pair; f, part of hand, in oblique position; g, part of palpus of mandible.—p. 957.

Fig. 2 a. Gammarus? Peruvianus, enlarged six diameters; b, mandible, in a position not showing the molar prominence; c, maxilla of first pair; d, ibid., of second pair; e, maxillipeds.—p.

Fig. 3 a. Gammarus? Pubescens, enlarged seven diameters; b, mandible; c, d, maxillæ; e, maxillipeds; f, lower lip; g, leg of first pair.—p. 960.

Fig. 4 a. Gammarus? indicus, female? enlarged seven diameters; b, part of flagellum of superior antennæ; c, leg of second pair; d, extremity of last pair.—p. 961.

Fig. 5 a. Melita tenuicornis, male, enlarged four diameters; b, c, maxillæ; d, part of flagellum of inferior antennæ; e, leg of first pair; f, ibid., of second pair; g, female, enlarged four diameters; h, part of flagellum of superior antennæ; i, k, maxillæ; l, maxillipeds; m, hand of leg of first pair.—p. 963.

Fig. 6 a. Mæra valida, male, enlarged seven diameters; b, left hand of second pair; c, part of flagellum of superior antennæ. p. 965.

Fig. 7 a. Mæra setipes, male, enlarged seven diameters; b, small hand of second pair.—p. 967.

Fig. 8 α . Mæra anisochir, enlarged eight diameters; b, smaller hand of second pair; c, leg of first pair in female; d, leg of second, ibid.; d, same, of size to correspond with 8 a.—p. 967.

Fig. 9 a. Dercothoe emissitius, enlarged six diameters; b, head, more enlarged; c, portion of flagellum of superior antennæ; d, leg of fourth pair; e, ibid., of fifth pair.—p. 969.

Fig. 10 a. Dercothoe emissitius, female? enlarged; b, leg of fourth pair; c, ibid., of seventh pair; d, caudal extremity, showing the three pairs of stylets; e, caudal stylet of last pair in profile.—p. 970.

PLATE 67.

Fig. 1 α . Dercothoe speculans, enlarged (appendage to superrior antennæ overlooked?); b, part of flagellum of superior antennæ; c, ibid., of inferior antennæ; d, side view of head; e, extremity of leg of third or fourth pair; f, caudal stylet of last pair; g, leg of second pair; h, mandible.—p. 971.

Fig. 2. Dercothoe? Hirsuticornis, enlarged nine diameters.p. 972.

Fig. 3 α . Pyctilus macrodactylus, enlarged; b, hand of leg of first pair; c, ibid., of second pair.—p. 974.

Fig. 4 a. PYCTILUS PUGNAX, hand of second part of mandible; c, caudal extremity; d, caudal stylet of last pair, in profile.—p. 975.

Fig. 5 a. Pyctilus brasiliensis, enlarged; b, leg of first pair; c, ibid., of second pair; d, ibid., of fifth pair; e, ibid., of seventh pair; f, caudal extremity; g, stylet of second pair; h, ibid., of last pair, more enlarged.—p. 976.

Fig. 6 a. Lestrigonus ferus, enlarged ten diameters; b, abdo-

second pair, in female, much enlarged; e', same, magnified to cor- | men, side view; c, base of superior antennæ; d, maxillipeds,—p,

Fig. 7. L. ferus? young.—p. 983.

Fig. 8 a. Lestrigonus fuscus, enlarged nine diameters; b, base of superior antennæ; c, extremity of abdomen, exclusive of stylets of first pair.—p. 983.

Fig. 9 a. Lestrigonus rubescens, enlarged sixteen diameters; b, extremity of abdomen.—p. 984.

Fig. 10 a. Lestrigonus Fabreh? enlarged thirty diameters; b, extremity of leg of second pair; c, caudal extremity; d, head, showing mouth organs in lateral view.—p. 985.

Fig. 11 a. Hyperia agilis, enlarged seven diameters; b, front view of part of head, in outline; c, inferior antenna; d, extremity of leg of seventh pair.—p. 986.

Fig. 12 a. Hyperia trigona, enlarged four diameters; b, outline of section of thorax; e, maxillipeds; d, leg of first pair; e, ibid., of second pair; f, same, in oblique under view; g, part of leg of fourth pair; h, ibid., of fifth pair; i, extremity of abdomen, upper view; k, stylets of last pair.—p. 987.

PLATE 68.

Fig. 1 a. Cyllopus magellanicus, enlarged six diameters; b, superior antenna; e, inferior, ibid.; d, mandible; e, maxillipeds; f, leg of sixth pair, with branchia; g, caudal extremity.—p. 990.

Fig. 2 a. Tauria macrocephala, enlarged three diameters; b, same, natural size; c, antennæ, as they project from the head; d, extremity of leg of first pair; e, ibid., of second pair.—p. 988.

Fig. 3 a. Daira? debilis, enlarged six diameters; b, under view of head; c, antenna; d, leg of second pair; e, termination of leg of fourth pair; f, fourth pair; g, extremity of abdomen. p. 991.

Fig. 4 a. Daira? Depressa, enlarged six diameters; b, dorsal view; c, antenna; d, leg of first pair; e, ibid., of second pair; f, termination of sixth pair; g, caudal extremity; h, liver.—p. 992.

Fig. 5 a. Daira inæquipes, enlarged nine diameters; b, antenna; c, hand of second pair.—p. 993.

Fig. 6 a. Synopia ultramarina, enlarged sixteen diameters; b, U, mandible, in different views; c, leg of first pair; d, ibid., of second pair; e, ibid., of third pair, and epimeral; f, ibid., of fourth pair; g, ibid., of fifth pair; h, ibid., of seventh pair.—p.

Fig. 7 a. S. ULTRAMARINA? male; b, upper view of head; c, basal portions of antennæ; d, terminal stylets; e, stylet of first

Fig. 8 a. Synopia angustifrons, enlarged sixteen diameters; b, upper view of head; c, superior antenna; d, leg of second pair.

Fig. 9 α . Anchylomera purpurea, enlarged fifteen diameters; b, front view of head; c, maxilla of first pair; d, ibid., of second pair; e, base of superior antenna; f, ibid., of inferior ibid.; g, leg of first pair; h, ibid., of second pair; i, ibid., of third pair; k, ibid., of fourth pair; l, abdominal leg; m, caudal extremity.—

Fig. 10 a. Anchylomera thyropoda, enlarged fifteen diameters; b, front view of head; c, antenna; d, maxilla; e, leg of sixth pair; f, ibid., of seventh pair; g, caudal extremity.—p. 1004.

PLATE 69.

Fig. 1 α . Themisto antarctica, enlarged three diameters; b,

front view of head in outline; e, superior antenna; d, inferior, ibid.; e, caudal extremity.—p. 1005.

Fig. 2 a. Phorcus hyalocephalus, enlarged eight diameters; b, antenna; c, caudal extremity.—p. 1006.

Fig. 3 a, b. Dithyrus faba, enlarged four diameters; c, ventral view, part of organs omitted, and showing three posterior coxe of one size thrown back; d, front view of head; e, antenna; f, maxillipeds; g, leg of first pair; h, ibid., of second pair; i, ibid., of third or fourth pair; k, abdominal natatories; l, caudal segment, under view; m, stylets of first pair.—p. 1010.

Fig. 4 a. Thyropus diaphanus, enlarged ten diameters; b, same, dorsal view, enlarged five diameters; c, inner antenna; d,

outer, ibid.; e, leg of third or fourth pair; f, caudal segment, under view; g, stylet of first pair.—p. 1013.

Fig. 5 α . Pronoe Brunnea, enlarged six diameters; b, dorsal view, enlarged four diameters; c, inner antenna; d, outer, ibid.; e, leg of third or fourth pair; f, ibid., of fifth pair; g, ibid., of sixth pair; h, ibid., of seventh pair; i, caudal extremity; k, k', branches of first pair of stylets.—p. 1015.

Fig. 6 α . LYCEA OCHRACEA, enlarged five diameters; b, head, in upper view; c, inner antenna; d, outer antenna; e, mandible; f, leg of first pair; g, ibid., of second pair; h, caudal extremity. —p. 1017.

III. ENTOMOSTRACA.

PLATE 70.

STRUCTURE OF CYCLOPOIDEA.

Figs. 1–8. Body:—1 a. Calanus; 1 b. Cyclops; 1 c. Catopia;
2. Laophon; 3. Calanus; 4. Euchæta; 5. Pontella; 6. Corycæus;
7. Sapphirina; 8. Setella.

Figs. 9–15. Head and eyes:—9 a, b. Pontella; 10. Catopia; 11. Euchæta; 12. Setella; 13. Calanus sanguineus; 14 a, b. Pontella; 15. Corycæus.

Figs. 16–43. Anterior antennæ:—16. Corycæus; 17. Sapphirina; 18 a, b, 19, 20. Cyclops; 21. Calanus; 22, 23, 24. Euchæta; 25. Undina; 26 to 36. Pontella; 37, 38. Candace; 39, 40. Oithona; 41. Acartia; 42 a, b. Clytemnestra; 43. Setella.

Figs. 44-55. Posterior antennæ:—44. Cyclops; 45. Setella; 46. Sapphirina; 47. Corycœus; 48. Oithona; 49. Harpacticus; 50. Euchæta; 51, 52, 53. Calanus; 54. Pontella; 55. Candace.

PLATE 71.

STRUCTURE OF CYCLOPOIDEA.

Figs. 56-63. Mandibles:—56, from a Sapphirina; 57 a, b, 58. Calanus; 59. Eucheta; 60, 61, 61 a. Pontella; 62. Harpacticus; 63. Oithona.

Figs. 64–73. Maxillæ:—64. Coryeæus; 65. Sapphirina; 66. Euchæta; 67, 68, 69. Calanus; 70, 71, 72. Pontella; 73. Oithona; 73 bis. Candace.

Figs. 74–81. Maxillipeds:—74 a, b. Sapphirina; 75 a, b. Corycœus; 76. Harpacticus; 77. Pontella; 78. Euchæta; 79. Oithona; 80, 81. Candace.

Figs. 82–92. First pair of legs:—82. Calanus; 83. Euchæta; 84, 85, male Corycæus; 86. Setella; 87, female Corycæus; 88. Cyclops; 89. Cyclops; 90. Pontella; 91, 92. Oithona.

Figs. 93–100. Posterior legs:—93. Calanus; 94. Acartia; 95, female Pontella detruncata; 96, male, same Pontella; 97, 98, male Pontellæ; 99, male Candace pachydactyla; 100, male Euchæta.

Figs. 101-114. Abdomen and caudal lamella:—101. Calanus or Pontella; 102, 104. Calanus; 103. Euchæta; 105, 106. Cyclops; 107. Harpacticus; 108. Oithona; 109, 110. Setella; 111. Corycœus; 112, 113, 114. Sapphirina.

Fig. 115. Thyone; 116, 120. Notodelphys of Allman.

PLATE 72.

Fig. 1 a. Calanus rotundatus, enlarged; b, extremity of anterior antenna; c, side view, showing alimentary canal, i, i, and heart, h; d, young, possibly of this species.—p. 1049.

Fig. 2 a. Calanus comptus, enlarged; b, extremity of anterior antenna; c, abdomen, in profile.—p. 1050.

Fig. 3 a. Calanus nudus, enlarged; b, antenna of second pair. —p. 1052.

Fig. 4 a. Calanus magellanicus, enlarged; b, natural position of anterior antennæ; c, extremity, ibid.—p. 1053.

Fig. 5. Calanus crassus, enlarged.—p. 1054.

Fig. 6 a. Calanus furcicaudus, enlarged; b, extremity of anterior antenna; c, profile of abdomen.—p. 1055.

Fig. 7 a. Calanus arcuicornis, enlarged; b, extremity of anterior antennæ.—p. 1056.

Fig. 8. Calanus turbinatus, enlarged.—p. 1057.

Fig. 9. Calanus stylifer, enlarged.—p. 1058.

Fig. 10. Calanus curtus, enlarged.—p. 1059.

Fig. 11 a. Calanus scutellatus, enlarged; b, extremity of antenna.—p. 1060.

Fig. 12 a. Calanus pavo, enlarged; b, antenna of second pair.—p. 1061.

PLATE 73.

Fig. 1 a. Calanus lævis, enlarged; b, extremity of anterior antenna.—p. 1062.

Fig. 2 a. C. Levis, another individual; b, extremity of superior antenna; c, posterior antenna; d, leg of first pair.—p. 1062.

Fig. 3 α . Calanus medius, enlarged; b, extremity of anterior antenna.—p. 1063.

Fig. 4. Calanus placidus, enlarged.—p. 1064.

Fig. 5 a. Calanus recticornis, enlarged; b, extremity of anterior antenna.—p. 1064.

Fig. 6 a. Calanus setuligerus, enlarged; a', side view, showing alimentary cavity, i, heart, h; b, antenna of second pair; c, leg of first pair; d, natatory leg of second or third pair.—p. 1065.

Fig. 7. Calanus pellucidus, enlarged.—p. 1067.

Fig. 8 a. Calanus affinis, enlarged; b, abdomen of another individual; c, extremity of anterior antenna of another specimen.

—p. 1067.

Fig. 9 a. Calanus flavipes, enlarged; b, extremity of anterior antenna.—p. 1068.

Fig. 10 a. Calanus tenuicornis, enlarged; b, extremity of anterior antenna.—p. 1069.

Fig. 11 α . Calanus sanguineus, enlarged; b, extremity of anterior antenna.—p. 1070.

Fig. 12 a. C. sanguineus?—p. 1071.

PLATE 74.

Fig. 1 a. Calanus sanguineus, var. perspicax, enlarged; b, eyes; c, extremity of antennæ of first pair.—p. 1071.

Fig. 2 a. Calanus mundus, enlarged; b, extremity of antenna of first pair.—p. 1071.

Fig. 3 a. Calanus inauritus, enlarged; b, base of antenna; c, extremity of same.—p. 1072.

Fig. 4 α . Calanus simplicicaudus, enlarged; b, extremity of antenna.—p. 1073.

Fig. 5 a. Calanus appressus, enlarged; b, extremity of antenna; c, caudal stylets and seta of another individual.—p. 1074.

Fig. 6. Calanus appressus, antenna of monstrous growth.—p. 1075.

Fig. 7. Calanus communis, enlarged.—p. 1076.

Fig. 8 a. Calanus amænus, enlarged; b, extremity of antenna.—p. 1076.

Fig. 9 α . Calanus bellus, enlarged (legs not figured); b, extremity of antenna.—p. 1077.

Fig. 10. Calanus gracilis, enlarged.—p. 1078.

PLATE 75.

Fig. 1 a. Calanus elongatus, enlarged (caudal stylets in part mutilated); a', same, natural size; b, under view, much enlarged.

—p. 1079.

Fig. 2 a. Calanus attenuatus, enlarged; a', extremity of antenna of first pair; b, mandible; b', process of same, in another position; c, maxilla; d, under view, more enlarged; e, dorsal view, showing nerves, to the antennæ (a), that to the eyes (e), and the glands over the stomach, which are ovarian or spermatic, and m, a muscle, moving the abdomen.—p. 1080.

PLATE 76.

Fig. 1 a. Rhincalanus rostrifrons, enlarged seventeen diameters; b, another individual.—p. 1082.

Fig. 2 a. Rhincalanus cornutus, enlarged thirteen diameters; a', profile of front; b, maxilla; c, natatory leg; d, outline of heart.

—p. 1083.

Fig. 3. Calanus, young.

Fig. 4 a. Ohthona plumifera, enlarged forty-eight diameters; a', position of the antennæ in a specimen collected in latitude 1° south, 30½° west; b, part of posterior antenna; c, maxillipeds; d, anterior feet; e, natatory leg.—p. 1099.

Fig. 5 a. Oithona abbreviata, enlarged fifty-four diameters; b, maxilliped.—p. 1100.

Fig. 6 a. OITHONA SETIGER, enlarged fifty diameters; a', extremity of anterior antenna; b, posterior antenna; c, mandible (not in its normal position); d, maxilla; e, maxilliped; f, anterior leg.—p. 1101.

PLATE 77.

Fig. 1 a. Eucheta communis, female, enlarged eighteen diameters; b, mandible; c, maxilla; d, maxilliped.—p. 1086.

Fig. 2 a. Eucleeta communis, male, enlarged thirteen diameters; a', upper view of front; b, antenna of second pair; c, one of the natatory legs; d, e, legs of posterior pair.—p. 1086.

Fig. 3. Euchæta communis? young.—p. 1088.

Fig. 4 α . Euchæta concinna, female, enlarged twenty diameters; b, abdomen of another specimen.—p. 1088.

Fig. 5 α . Euchleta concinna, male, enlarged twenty diameters; b, feet of posterior pair; c, one of them in different position.—p. 1088.

Fig. 6 a. Euchleta pubescens, enlarged seventeen diameters; a', beak, in profile; b, antenna of second pair; e, mandible; d, lip; e, maxilla; f, maxilliped; g, anterior feet.—p. 1090.

Fig. 7 a. Eucileta diadema, female, enlarged fourteen diameters; b, maxilliped; c, anterior feet; d, posterior thoracic feet of female; c, an appendage, attached below to abdomen near its base in some individuals.—p. 1091.

Fig. 8 a. Undina vulgaris, enlarged twenty-one diameters; b, extremity of anterior antenna; c, right foot of last pair; d, profile of cephalothorax; showing elementary cavity and genital system, with the beak in profile.—p. 1092.

Fig. 9 a. Undina simplex, enlarged thirty diameters; b, extremity of superior antenna.—p. 1094.

Fig. 10 a. Undina ——? anterior antenna; b, posterior ibid.; c, leg of first pair; d, right leg of last pair; e, profile of body, showing alimentary cavity; f, abdomen.—p. 1095.

Fig. 11 a. Undina inornata, enlarged eighteen diameters; b, extremity of anterior antennæ; c, natatory of second pair.—p. 1095.

PLATE 78.

Fig. 1 a. Candace ornata, enlarged; b, antenna of second pair; c, palpus of mandible; d, maxilla; c, maxilliped; f, one of the natatories.—p. 1111.

Fig. 2 a. Candace pachydactyla, male, enlarged; b, right foot of posterior pair.—p. 1113.

Fig. 3 a. Female of Candace pachydactyla? b, extremity of antenna of anterior pair.—p. 1114.

Fig. 4 a. Candace pachydactyla?—p. 1114.

Fig. 5 a. Candace ethiopica, male, enlarged; a', extremity of antenna of anterior pair; b, geniculating joint of same; c, eyes and pigment; d, maxillipeds; c, leg of first pair; f, posterior thoracic feet, the right in front.—p. 1115.

Fig. 6 a. Candace curta, enlarged; a', extremity of antenna; b, maxilliped; c, right leg of posterior pair (not quite complete); d, left, ibid.—p. 1116.

Fig. 7 α . Candace aucta, female, enlarged; \emph{b} , extremity of autenna.—p. 1117.

Fig. 8 a. Candace truncata, female, enlarged; a', extremity of antenna; b, maxilliped; c, leg of posterior thoracic pair; d, profile of abdomen.—p. 1118.

Fig. 9. Hemicalanus longicornis, enlarged.—p. 1104.

Fig. 10 a. Hemicalanus calaninus, enlarged; b, extremity of | posterior antenna; d, natatory of third pair; e, leg of last pair. antenna.—p. 1105.

Fig. 11 a. Hemicalanus tenuicornis, enlarged; b, extremity of antenna.—p. 1106.

Fig. 12 a. Hemicalanus gracilis, enlarged; b, extremity of antenna.—p. 1108.

PLATE 79.

Fig. 1 a. Catopia furcata, enlarged; a', side view of head, more enlarged; b, extremity of left antenna; c, geniculating part of right, enlarged; d, basal portion of antenna, showing short spines.—p. 1173.

Fig. 2 a. Acartia Limpida, enlarged; b, leg of posterior thoracic pair.—p. 1119.

Fig. 3 a. Acartia negligens, enlarged; b, posterior part of body, in profile; c, antenna of second pair.—p. 1121.

Fig. 4 a. Acartia tonsa, enlarged; a', extremity of antenna of anterior pair; b, antenna of posterior pair; c, palpus of mandible; d, maxilla; e, maxilliped; f, feet of first pair; g, eyes.—p. 1122.

Fig. 5 α . Acartia laxa, enlarged; b, outline of head, in upper view; c, pair of posterior thoracic appendages or legs.—p. 1123.

Fig. 6 a. Calanopia elliptica, enlarged; b, extremity of antenna.—p. 1132.

Fig. 7 a. Calanopia brachiata, male, enlarged; b, posterior thoracic feet, more enlarged.—p. 1133.

Fig. 8 a. Female of C. BRACHIATA? b, extremity of antenna. p. 1134.

Fig. 9 a. C. Brachiata? front of male; b, posterior extremity of body, caudal setæ excluded; c, right antenna; d, extremity of antenna; e, right foot of posterior pair; f, one of female feet corresponding; g, female abdomen distorted.—p. 1134.

Fig. 10 α. Pontellina plumata, female, enlarged; b, maxilliped; c, one of the natatories; d, leg of posterior thoracic pair.—p. 1135.

Fig. 11 a. Pontellina turgida, enlarged; b, extremity of antenna.—p. 1136.

Fig. 12 a, b. P. TURGIDA, another variety.—p. 1137.

PLATE 80.

Fig. 1 a. Pontellina curta, enlarged; b, extremity of antenna. **—**р. 1138.

Fig. 2 a. Pontellina contracta, enlarged; b, side view of beak; c, extremity of antenna.—p. 1139.

Fig. 3. Pontellina contracta.—p. 1140.

Fig. 4 a, b. P. CONTRACTA ?—p. 1140.

Fig. 5 a. Pontellina media, enlarged; b, extremity of antenna. **—**р. 1141.

Fig. 6 a. Pontellina crispata, enlarged; b, extremity of antenna.—p. 1142.

Fig. 7 a. Pontellina detruncata, male, enlarged; a, part of male right antenna, anterior pair; b, profile of head; c, maxillipeds (magnified twice as much as fig. 7a); d, anterior feet; e, posterior thoracic feet, in male; f, ibid., in female; g, under view, showing organs of head and mouth; h, i, different views of a distorted female abdomen.—p. 1143.

Fig. 8 a. Pontellina simplex, enlarged; b, posterior antenna. p. 1145.

Fig. 9 a. Pontellina exigua, enlarged (antennæ removed); b, profile, showing outline of head.—p. 1146.

Fig. 10 a. Pontellina agilis, enlarged; b, side view of head; c,

—р. 1147.

Fig. 11 a. Pontellina acutifrons, enlarged; a', extremity of antenna; b, male right antenna; c, side view of head; d, mandible and palpus; e, maxilla; f, leg of first pair; g, leg of last pair; h, natatory leg of one of three posterior pairs.—p. 1149.

Fig. 12 a. Pontellina acuta, male, enlarged; a', part of head, in profile; b, right male antenna; c, feet of last pair.—p. 1150.

Fig. 13 a. Pontellina rubescens, enlarged; b, extremity of antenna.—p. 1152.

Fig. 14 a. Pontellina emerita, enlarged (one joint of antenna probably wanting at extremity); b, posterior feet.—p. 1153.

PLATE 81.

Fig. 1 α . Pontellina regalis, enlarged; b, extremity of antenna. -p. 1154.

Fig. 2 a. Pontellina perspicax, enlarged; b, one of six posterior natatories; c, right leg of last pair; d, left, ibid.—p. 1155.

Fig. 3 a. Pontellina pulchra, enlarged; b, side view of head; c, posterior antenna; d, natatory leg; e, right leg of last pair; f, left, ibid.—p. 1157.

Fig. 4 α. Pontellina strenua, enlarged; α', extremity of left antenna; b, part of right male antenna; c, profile of head; d, feet of last pair.—p. 1158.

Fig. 5 a. Pontellina protensa, enlarged; a', extremity of antenna; b, posterior part of cephalothorax in one specimen.—p. 1159.

Fig. 6 α . Pontella hebes, enlarged; α' , view of front and base of antennæ; b, eyes.—p. 1160.

Fig. 7. Pontella frivola, enlarged.—p. 1161.

Fig. 8 α. Pontella hebes? male; α', extremity of antenna. p. 1162.

Fig. 9 α . Pontella detonsa, enlarged; b, profile of head; c, extremity of left antenna in male, or of either in female; d, probably right male antenna, of another specimen; e, front view of beak; f, mandible and palpus; g, maxilla; h, maxilliped; i, upper view of head, in another specimen.—p. 1163.

Fig. 10 a. P. detonsa, another specimen; a', extremity of antenna.—p. 1163.

Fig. 11 a. Pontella argentea, enlarged; a', extremity of antenna; b, base of same; c, beak, nearly in profile; d, under view of inferior eyes.—p. 1164.

PLATE 82.

Fig. 1 a. Pontella speciosa, enlarged; a', profile of head, in some individuals; b, posterior feet, enlarged two diameters more than figure a; c, extremity of thorax and abdomen in some small individuals.—p. 1166.

Fig. 2 a, a'. Pontella speciosa, var. formosa, enlarged.—p. 1167.

Fig. 3 a, a', Pontella detonsa?, enlarged.—p. 1164.

Fig. 4 a. Pontella princeps, enlarged; a' (right hand upper corner of Plate), extremity of antenna; b, beak, in profile; c, posterior part of cephalothorax and abdomen, in profile.—p. 1168.

Fig. 5 a. Pontella fera, enlarged; a', extremity of female antenna; b (over fig. 5 e), part of male antenna; c, profile of head; d (over 5a), front view of beak; e, abdomen of a male; f, profile of a female abdomen; g, another female abdomen. upper view; h, lips; i, mandible; j (right of 5a), another view

Fig. 6 a. Pontella valida, showing beak, in profile; b, right antenna of male; c, part of same, more enlarged; d, natatory of first pair; e, ibid., of fourth pair; f, posterior legs of male; g, abdomen of a male, abnormal form.—p. 1171.

PLATE 83.

Fig. 1 a. Cyclops brasiliensis, male, enlarged; b, lateral view, showing beak and alimentary canal; c, antenna of second pair; d, extremity of maxilliped, leg of first pair; e, natatory leg; f, antenna of female; g, abdomen, with external ovarian sacs of female.—p. 1181.

Fig. 2 a. Cyclops curticaudus, female, enlarged; b, extremity of antenna of anterior pair; c, ibid., of posterior pair; d, ibid., of maxilliped or leg of first pair.—p. 1182.

Fig. 3 a. Cyclops pubescens, male, enlarged; b, antenna of female; c, caudal setæ, more magnified; d, ovarian sac.—p. 1183. Fig. 4 a. Cyclops MacLeayi, female, enlarged; b, extremity of

antenna of anterior pair.—p. 1184.

Fig. 5 a. Cyclops vitiensis, female, enlarged; b, extremity of antenna.—p. 1185.

Fig. 6 α. Canthocamptus virescens, female, enlarged; α', eyes; b, antenna of anterior pair, of female; c, antenna of posterior pair; d, mandible, without the palpus; e, part of maxilliped; f, natatory leg; g, foot of first pair; h, ibid., of second pair; h', extremity of longer branch; i, young animal, a day or two old.—

Fig. 7 a. Harpacticus concinnus, female, enlarged; b, extremity of antenna of posterior pair (?); c, extremity of a maxilliped or palpus of mandible (?); d, foot of first pair; e, ibid., of second pair; f, external ovarian sac.—p. 1189.

Fig. 8 a. Harpacticus sacer, male, enlarged; b, eyes; c, hand of antenna of anterior pair, in male; c', antenna of female; d, extremity of antenna of posterior pair; e, leg of first pair; f, ibid., of second pair.—p. 1191.

Fig. 9 a. Canthocamptus linearis, female, enlarged; b, antenna.—p. 1188.

Fig. 10. Canthocamptus roseus, female, enlarged.—p. 1189.

Fig. 11 a. Harpacticus? acutifrons, male, enlarged; b, extremity of a maxilliped, or the mandibular palpus (?).—p. 1192.

Fig. 12 a. Clytemnestra scutellata, enlarged; b, eyes; c, antenna of posterior pair; d, extremity of a maxilliped; e, cheliform legs (first pair of legs); f, leg of one of the natatory pairs. —р. 1194.

PLATE 84.

appendages; b, base of one of anterior antennæ; c, one of postefile, showing the carinate ventral process; d, posterior antenna. rior antennæ; g, leg of first pair; i, k, natatory legs; l, m, young —p. 1224. Setellæ.—p. 1196.

Fig. 2 a. Setella longicauda, enlarged; a', appendage to beak. —р. 1197.

Fig. 3 a, b. Setella gracilis, enlarged; c, beak appendage; d, extremity of a maxilla, imperfectly seen; e, leg of first pair; f, abdominal appendages; g, part of caudal setæ, showing spinous character of.—p. 1198.

of mandible and its palpus; k, maxilla; l, right posterior foot.— | b, one of anterior antennæ; c, extremity of posterior, ibid.; d, leg of first pair; e, abdomen, in profile, showing abdominal appendages beneath.—p. 1199.

Fig. 5 a. Setella aciculus, female, enlarged; a', profile of head; b, one of anterior antennæ; c, ibid., of posterior, ibid.; d, leg of first pair; e, ibid., of second pair; f, bag of eggs; g, g', abdomen.—p. 1200.

PLATE 85.

Fig. 1 a, a'. Corycæus gracilis, enlarged; b, anterior antenna; c, posterior ibid.; d, natatory of second or third pair.—p. 1207.

Fig. 2 a, a'. Corycæus decurtatus, enlarged; b, anterior antenna; c, posterior, ibid.—p. 1208.

Fig. 3 a. Corycæus deplumatus, enlarged; b, natatory leg.—p.

Fig. 4 a, b. Corycæus varius, enlarged; c, side view of abdomen; d, anterior antenna; e, posterior, ibid.; f, natatory leg of first pair; g, ibid., of fourth pair; h, eggs, pressed from the body; i, leg of first pair.—p. 1211.

Fig. 5 a, b. Corygaeus longistylis, enlarged; c, posterior antenna; d, maxilla and anterior foot.—p. 1212.

Fig. 6. Corycæus obtusus, enlarged.—p. 1214.

Fig. 7 a, b. Corycæus crassiusculus, enlarged.—p. 1214.

Fig. 8 a, b. Corycæus laticeps, enlarged; c, natatory leg.—p.

Fig. 9 a, b. Coryceus vitreus, enlarged; c, anterior antennæ; d, anterior legs.—p. 1216.

Fig. 10 a, b. Corycæus agilis, enlarged.—p. 1217.

Fig. 11 a, b. Coryceus orientalis, enlarged; c, posterior antenna.—p. 1218.

Fig. 12 a, a'. Corycæus lautus, enlarged; b, posterior antenna; c, two pairs of maxillæ; d, maxillæ and maxillipeds and anterior feet, in position (nearly); e, extremity of natatory leg. **—**р. 1219.

PLATE 86.

Fig. 1 a. Coryceus speciosus, enlarged; b, abdomen, side view; c, one of the natatories, second pair; d, ibid., of third pair.—p. 1220.

Fig. 2 a. Corycæus remiger, enlarged; b, posterior antenna. р. 1221.

Fig. 3 a. Corycæus latus, enlarged; a', anterior antenna; b, posterior, ibid.; c, leg of first pair; d, natatory of second pair; e, abdomen, side view.—p. 1221.

Fig. 4 a, a'. Coryceus venustus, enlarged; b, posterior antenna; c, mandible or inner maxilla; d, leg of first pair.—p. 1222. Fig. 5 a, b. Corycæus inquietus, enlarged.—p. 1223.

Fig. 6 a. Corycæus pellucidus, enlarged; b, abdomen, dorsal Fig. 1 a. Setella tenuicornis, enlarged; a', beak, with its view, and extremity of cephalothorax; c, cephalothorax, in pro-

Fig. 7 a. Corycæus concinnus, enlarged; b, posterior an-

Fig. 8 a. Corycæus productus, enlarged; b, natatory of third or fourth pair.—p. 1226.

Fig. 9 a, a'. Corycæus longicaudis, enlarged; b, anterior antenna; c, posterior, ibid.—p. 1226.

Fig. 10 a, a'. Antaria crassimana, enlarged; b, posterior an-Fig. 4 a. Setella crassicornis, enlarged; a', profile of head; tenna; c, leg of first pair.—p. 1228.

view of female, with the external ovarian sacs; c, anterior antenna; d, posterior antenna.—p. 1229.

Fig. 12. Antaria gracilis, another variety.—p. 1229.

Fig. 13 a, b. Antaria obtusa; c, posterior antenna; d, d', anterior feet (d', with the finger closed); e, abdomen, of another | p. 1252. specimen.—p. 1230.

Fig. 14 a. Copilia mirabilis, enlarged; b, anterior part, under view, more enlarged (a, conspicillum or convex cornea; b, lens of the eye, with the pigment behind it; c, nerve to the antennæ); d, f, g, muscles.—p. 1232.

Fig. 15 a. Copilia quadrata; b, posterior antenna; c, under view of mouth; d, natatory leg.—p. 1233.

PLATE 87.

Fig. 1 a. SAPPHIRINA IRIS, female, enlarged; a', one of the anterior antennæ; b, posterior antenna; c, anterior feet or maxillipeds.—p. 1239.

Fig. 2 a. S. IRIS, male, enlarged; a', anterior antennæ; b, posterior antenna; c, anterior feet; d, seminal glands and ducts.—p.

Fig. 3 a. Sapphirina angusta, enlarged; b, posterior antenna. —р. 1240.

Fig. 4 α . Sapphirina elongata, enlarged; b, posterior antenna. —р. 1241.

Fig. 5 a. Sapphirina metallina, enlarged; b, under view of anterior part; c, caudal lamella.—p. 1242.

Fig. 6 a. Sapphirina coruscans, male, enlarged; b, posterior antenna.—p. 1243.

Fig. 7 a. Sapphirina inæqualis, enlarged; b, posterior antenna.—p. 1244.

Fig. 8 a. Sapphirina ovata, enlarged; b, posterior antenna. p. 1245.

Fig. 9 a. Sapphirina splendens, enlarged; b, posterior antenna (unfinished sketch); c, caudal lamella.—p. 1246.

Fig. 10 α. Sapphirina ovalis, enlarged; b, posterior antenna. **—**р. 1246.

Fig. 11 a. Sapphirina detonsa, enlarged; b, under view of anterior segment, showing how far the shell is reflexed below; c, posterior antenna.—p. 1247.

Fig. 12 a. Sapphirina indigotica, enlarged; b, posterior antenna.—p. 1248.

Fig. 13 α . Sapphirina orientalis, male (not female, as stated on p. 1250), enlarged; b, part of posterior antenna; c, caudal lamella.—p. 1249.

Fig. 14 a. Sapphirina orientalis, female, enlarged; a', posterior antenna; b, anterior antenna; c, under view of anterior part of animal.—p. 1249.

Fig. 15 a. Sapphirina ovato-lanceolata, female, enlarged; b, posterior antenna; c, anterior foot or maxilliped.—p. 1251.

Fig. 16 a. Sapphirina ovato-lanceolata, male, enlarged; b, under view of head.—p. 1251.

PLATE 88.

Fig. 1 α . Sapphirina gemma, female, enlarged; α' , anterior antennæ; b, b', posterior antennæ, different views; c, anterior feet; d, e, maxillæ; f, maxillæ in place.—p. 1252.

Fig. 2 a. Sapphirina gemma, male, enlarged (nervous system coloured reddish; d, e, digestive system and œsophagus, greenish;

Fig. 11 a. Antaria gracilis, lateral view, enlarged; b, back c, c', genital system, bluish; a, lenses of eyes; f, lenticular cornea or conspicilla); a', lenses of the eyes and pigments, with intermediate minute eyes; b, anterior antenna; c, posterior, ibid.; d, leg of first pair; e, same, in position; f, lower extremity of genital system (same as e' in 2 a); g, nervous ganglion and its nerves.—

> Fig. 3 a. Sapphirina bella, male, enlarged; b, eye-lenses, with the intermediate eyes; c, posterior antennæ; d, caudal lamellæ and part of abdomen bearing it.—p. 1254.

> Fig. 4 a. Sapphirina opalina, male, enlarged; b, third pair of natatories; c, fourth, ibid.; d, anterior part of body, showing lenticular corneæ on the front, two pairs of antennæ, a1, a2, and the mouth covered by the first pair of legs; e, mouth, with one of the legs removed; f, same, both legs removed; g, same, one of outer maxillæ removed; h, same, both of outer and one of inner maxillæ removed; i, one of inner maxillæ and mandible; k, l, outer maxillæ, in different positions.—p. 1254.

> Fig. 5 a. Sapphirina versicolor, male, enlarged; b, posterior antenna; c, eye-lenses and pigments, and intermediate eye-spot. p. 1255.

> Fig. 6 α . Sapphirina tenella, male, enlarged; α' , view showing outline of stomach; b, posterior antenna; c, leg of first pair.—p.

> Fig. 7 a. Sapphirina tenella, female, enlarged; a', anterior antennæ; b, posterior, ibid.; c, leg of first pair.—p. 1256.

Fig. 8 a, b. Sapphirina ———?—p. 1258.

Fig. 9. Sapphirina obesa, enlarged.—p. 1258.

Fig. 10. Sapphirina obtusa, enlarged.—p. 1259.

Fig. 11. Miracia efferata, female, enlarged.—p. 1260.

Fig. 12 α . Miracia gracilis, enlarged; b, appendage to beak; c, another variety.—p. 1261.

PLATE 89.

Fig. 1 a, b. Daphnella angusta, enlarged; c, anterior antennæ; d, leg of first pair; e, ibid., of fourth pair, magnified three-fourths more than 1 a; f, dorsal abdominal appendage.—p.

Fig. 2 a, b. Penilia avirostris, enlarged.—p. 1269.

Fig. 3 a, b, c. Penilia orientalis, enlarged; d, antenna; e, natatory leg.—p. 1270.

Fig. 4 α . Daphnia australiensis, female, enlarged; b, male, in profile; c, vertical view of head; d, abdomen, in part, with stomach and intestine; e, enlarged view, showing areolation of shell. _р. 1271.

Fig. 5 a. Daphnia macrura, enlarged; b, upper view of outline of head.—p. 1272.

Fig. 6 a, b. Ceriodaphnia textilis, enlarged.—p. 1274.

Fig. 7 a, b. Lynceus latifrons, enlarged.—p. 1274.

Fig. 8 α . Pleopis brevicaudis; b, leg of second pair; c, ibid., of fourth pair.—p. 1276.

Fig. 9 α . Cythere americana, view of female, after removal of one valve of shell, showing two pairs of antennæ, one of mandibles, one of maxillæ, and three pairs of legs, with abdomen and its appendages; b, animal, covered by its shell; c, part of shell, more enlarged; d, dorsal view, showing outline; e, outline of shell, with abdomen of male and one leg; f, same, with abdomen thrown out, as often observed, after putting the animal in hot water; g, h, male abdomen, with its two folds or portions separated; i, another view of same; k, bases of legs, showing bony framework, for their articulation; 7, abdominal appendage of female (same as c, in figure 9 a).—p. 1283.

PLATE 90.

of 1. Cypris Chilensis; 2. Cythere americana; 3. Cypridina; pairs of legs, in succession, or parts homologous. 4. CONCHECIA; 5. HALOCYPRIS INFLATA.

Fig. 6. Cypris speciosa, enlarged.—p. 1285.

Fig. 7 a. Cypris chilensis, side view, enlarged; b, upper view of shell; c, side view of animal, shell removed.—p. 1285.

Fig. 8 a. Cypris pubescens, side view, enlarged; b, upper view; c, anterior antenna; d, posterior antenna; e, leg of first pair.—p.

Fig. 9 a. Candona? Vitiensis, side view, enlarged; b, vertical view; c, anterior antenna; d, posterior antenna.—p. 1288.

Fig. 10. Candona? Albida, side view, enlarged.—p. 1289.

PLATE 91.

Fig. 1 a. Cypridina luteola, enlarged; b, dorsal view, outline; c, animal, removed from the shell (showing, d, eye; e, anterior antennæ; f, posterior, ibid.; g, mandibular feet; h, buccal mass, with its processes; i, maxilla of first pair; k, ibid., of second pair; l, ibid., of third pair; m, ovarian feet; n, caudal extremity); d, part of eye; d', one of the lenses; e, anterior antenna; f, part of a plume of posterior antennæ; g, part of mandibular foot, with mandibular process at g'; g'', same process, in profile; h, buccal mass and organs, under view (g, mandibular feet; i, maxilla of first pair; k, ibid., of second pair; l, ibid., of third pair; r, t, processes on the anterior and posterior part of the buccal mass; s, fleshy prominence intermediate, (see figure 1 c)); i, maxilla of first pair, same with i, in figures 1 c and 1 h; i', same, reversed; k, maxilla of second pair, same as k, in figures $1\,c$ and $1\,h\,;\,\,l,$ maxilla of third pair, same as l, in figures $1\,c$ and $1\,h\,;\;m,$ extremity of ovarian feet; n, larger of caudal spines. p. 1291.

Fig. 2 a, b. Cypridina punctata, enlarged.—p. 1293.

Fig. 3 a, b. Cypridina olivacea, enlarged; a', natural size.—p.

Fig. 4 a. Cypridina gibbosa, enlarged; b, anterior antenna; c, posterior antenna; d, mandibular feet; e, abdomen.—p. 1295.

Fig. 5 a. Cypridina formosa, enlarged; b, upper view, in outline; c, lateral view of animal; d, antenna of first pair; e, antenna of second pair; f, mandibular foot; g, ciliated plate, from maxilla of second pair; h, maxilla of third pair.—p. 1296.

Fig. 6 a. Conchecia agilis, under view, enlarged; b, lateral view; c, under view, with opened shell; d, anterior antennæ and intermediate spiculum ; e, mandibular feet.—p. 1299.

Fig. 7 a. CONCHECIA ROSTRATA, posterior antenna, enlarged; b, mandibular feet; c, maxilla of first pair; d, maxilla of second pair; e, leg of first pair; f, leg of second pair.—p. 1300.

Fig. 8 a. Halocypris inflata, dorsal view, enlarged; b, lateral ibid.; c, under view, valves open (d, inner antennæ, with spiculum between them; e, antennæ of second pair; f, mandibular feet; g, maxillæ; h, maxillæ, second pair; i, k, feet of two pairs; m, muscle); d, anterior antenna and spiculum; e, posterior and tenna; f, mandibular feet; g, h, maxillæ; i, k, legs of two pairs.

Fig. 9 a. Halocypris brevirostris, dorsal view; b, lateral view; c, part of second pair of antenna.—p. 1303.

PLATE 92.

Figs. 1 a to k, dissections of Sapphirina; 2 b to k, of Argulus; $\mid c$, caudal stylet.—p. 1366.

3 α to k, of Caligus; 4 α to k, of Pandarus; 5 α to k, of Lepi-DOPUS; 6 a to i, of Dichelestion; 7 to 7 h, of Lernentoma.—a, Figs. 1, 2, 3, 4, 5, a to g, organs in the order, first antenna, antenna of first pair; b, ibid., of second pair; c, mandible; d, second antenna, mandible, maxilla, maxilliped, legs of two pairs, maxilla; e, maxilliped, or leg homologous with it; f, g, h, i, k,

PLATE 93.

Caligus americanus, p. 1317.—a, under view of male, enlarged; a', male, natural size; a'', female, natural size; b, female antenna of second pair; e, female prehensile leg; d, maxilla; e, extremity of maxilliped; f, f', part of flexor muscles of posterior part of body (p. 1326); g, g', valves in the circulation (p. 1341); h, dorsal view, showing muscles (p. 1325); i, areas in shell, over the eyes; k, digestive system (p. 1337); l, œsophagus, showing glands of surface; m, part of intestine; n, o, glands, near mouth; p, p^{I} , p2, p3, p4, p5, different views of parts of mouth (p. 1320); q, under view of female, showing nervous and genital system; r, nerves to antenna; s, nervous ganglion; t, male genital system; u, u', condition of front, during moulting; v, flexed muscle of figure u, seen in profile; w, abdomen of female, with a corneous appendage to vulva, terminating in a bulb (probably torn from male, in coition?) [In text, p. 1321, 19th line from top, "between p and p," should read, between q and q.]

PLATE 94.

Fig. 1 a. Monstrilla viridis, animal, enlarged; b, profile, showing sucker mouth; 1 c, mouth prominence, enlarged; d, abdomen, in profile, with last segment of cephalothorax and natatory feet.—p. 1313.

Fig. 2 a, b. Argulus pugettensis, enlarged.—p. 1351.

Fig. 3 a. Caligus Thymni, male, enlarged; b, posterior antenna of female; c, abdomen, ibid.—p. 1353.

Fig. 4. Caligus productus, enlarged.—p. 1354.

Fig. 5 a. Caligus gracilis, enlarged; b, posterior antenna of female; c, maxilla; d, leg of second pair.—p. 1356.

Fig. 6 a. Lepeophtheirus Bagri, female, enlarged; b, posterior antennæ of female; c, maxillæ, ibid.; d, first pair of feet, ibid.; e, leg of second pair, ibid.; f, posterior antenna of male; g, leg of second pair, ibid.; h, abdomen, ibid.—p. 1357.

Fig. 7 α. Calistes trigonis, female, enlarged; b, posterior antenna, with the exterior spine, b'; c, aculeate part of maxilla, showing its forked character; d, leg of first pair; e, ibid., of second pair.—p. 1359.

Fig. 8 a. Caligeria bella, female, enlarged; b, c, d, e, the posterior antenna, maxilla, and first and second feet, in relative position; f, furcula; g, leg of last pair; h, under view of abdomen, showing appendages, sometimes observed attached.—p. 1360.

Fig. 9 a. Nogagus validus, enlarged; b to g, organs, in their relative positions, first and second antenne, mouth, first, second, and third pairs of feet; h, third and fourth pairs of natatories.—

PLATE 95.

Fig. 1 a. Pandarus concinnus, enlarged; b, anterior antenna:

Fig. 2 a. Pandarus saturus, enlarged; b, ventral view, more enlarged; c, caudal extremity, with commencement of external tube of eggs.—p. 1367.

Fig. 3 a. Pandarus brevicaudis, enlarged; b to g, organs, in their natural positions; h, last two pairs of natatories.—p. 1368.

Fig. 4 a. Dinematura braccata, enlarged; b, ventral view.—p. 1370.

Fig. 5 a. Lepidopus armatus, enlarged; a', ventral view; b, buccal trunk, with maxilla either side; c, extremity of same; d, separate view of maxilla; e, posterior antenna; f, maxilliped or foot of first pair; g, prehensile feet; h, i, natatory of first and second pairs; h, one of two posterior pairs of natatories.—p. 1373.

Fig. 6 α . Specialized curticaudis, enlarged; b, eyes; c, under view, showing organs, in order; d, e, hand of prehensile feet, in

profile; f, penult natatories; g, natatory of fourth or posterior pair; h, mandible and extremity of buccal trunk.—p. 1375.

Fig. 7. Corycæus deplumatus, jun.?

Fig. 8. Young of a Schizopod.

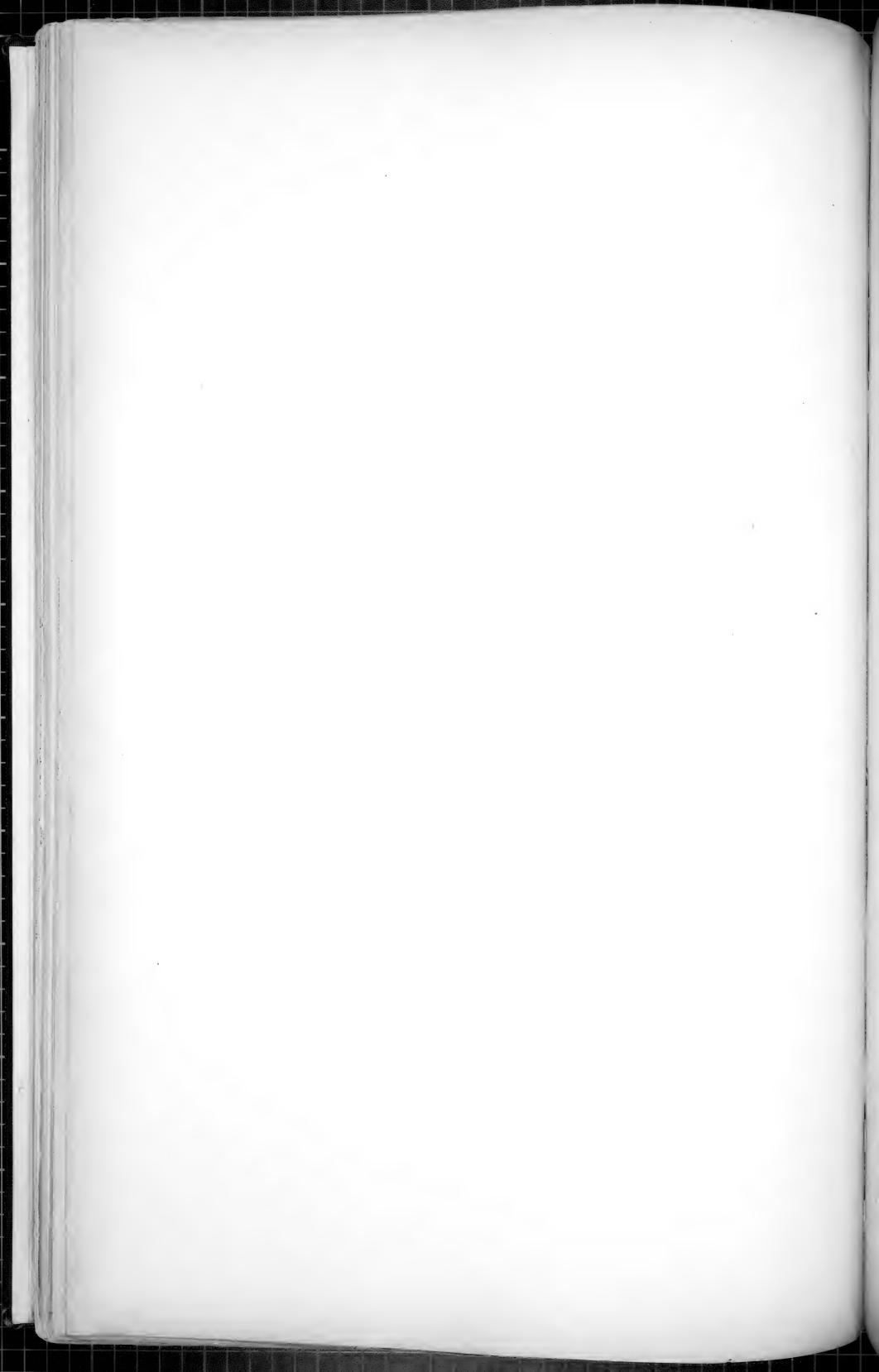
Figs. 9, 10, 11. Young of ———?

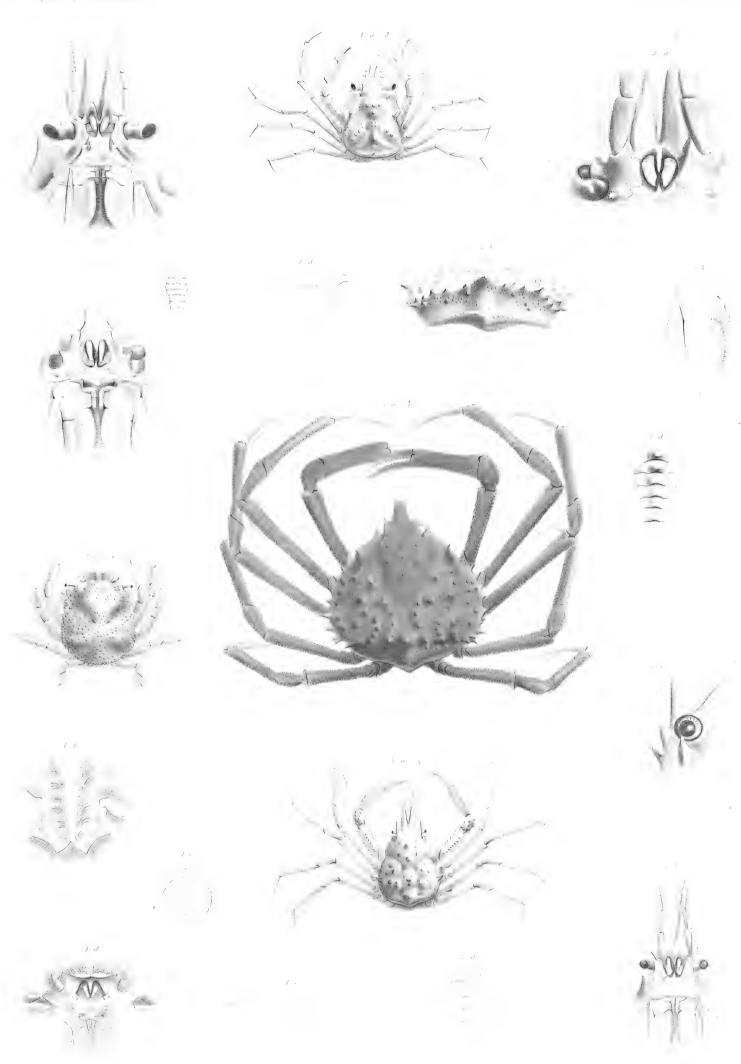
PLATE 96.

Fig. 1 a, b. Lernæofoda californiensis, enlarged.—p. 1379. Fig. 2 a. Pycnogonum orientale, specimen mutilated; b, body, more enlarged, showing branching of alimentary tube; c, appendage to cephalic segment.—p. 1391.

Figs. 3 to 8. Anatifidæ.—p. 1393.

Fig. 9 a to g. Acasta sporillus, of Darwin.



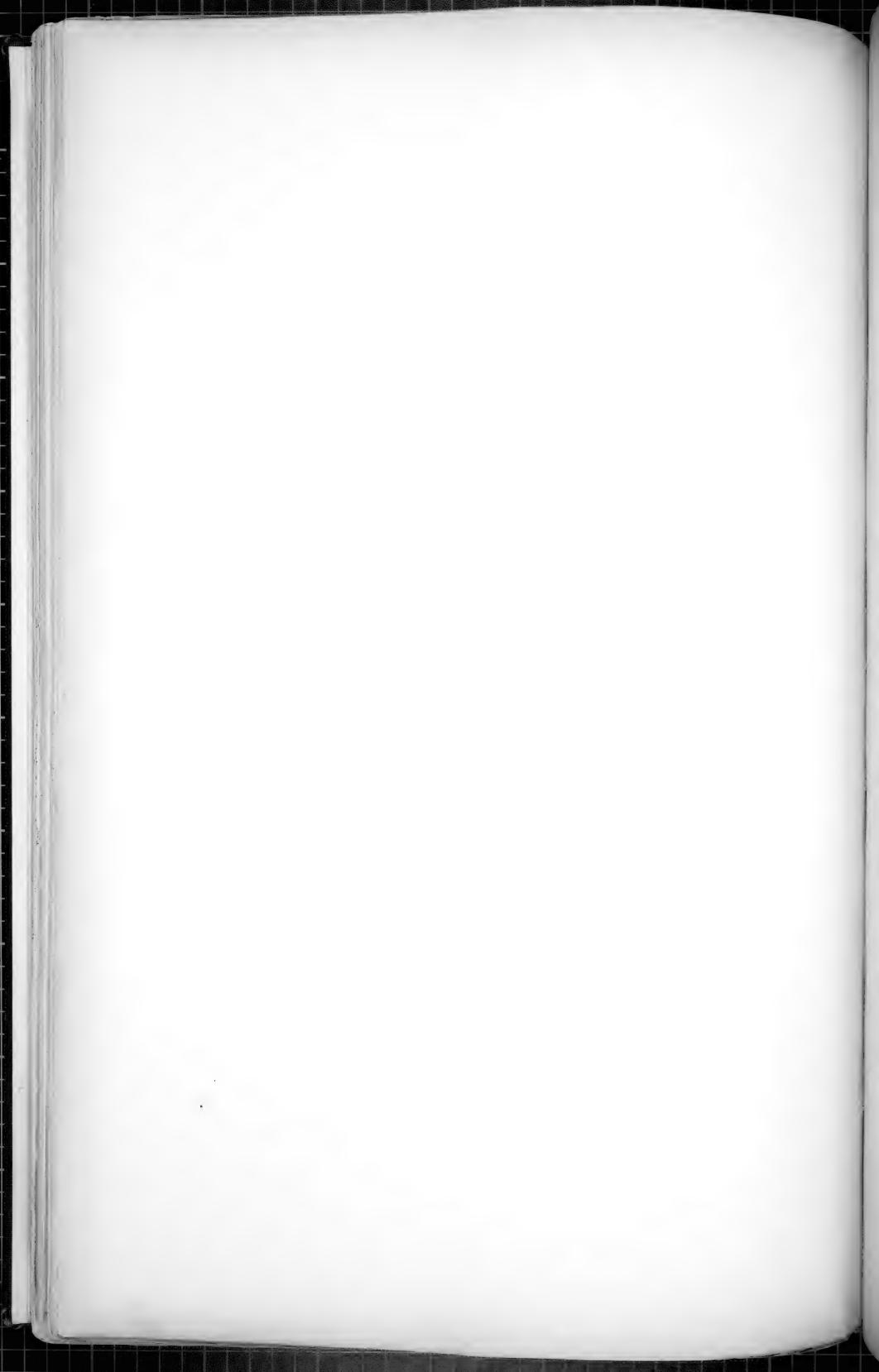


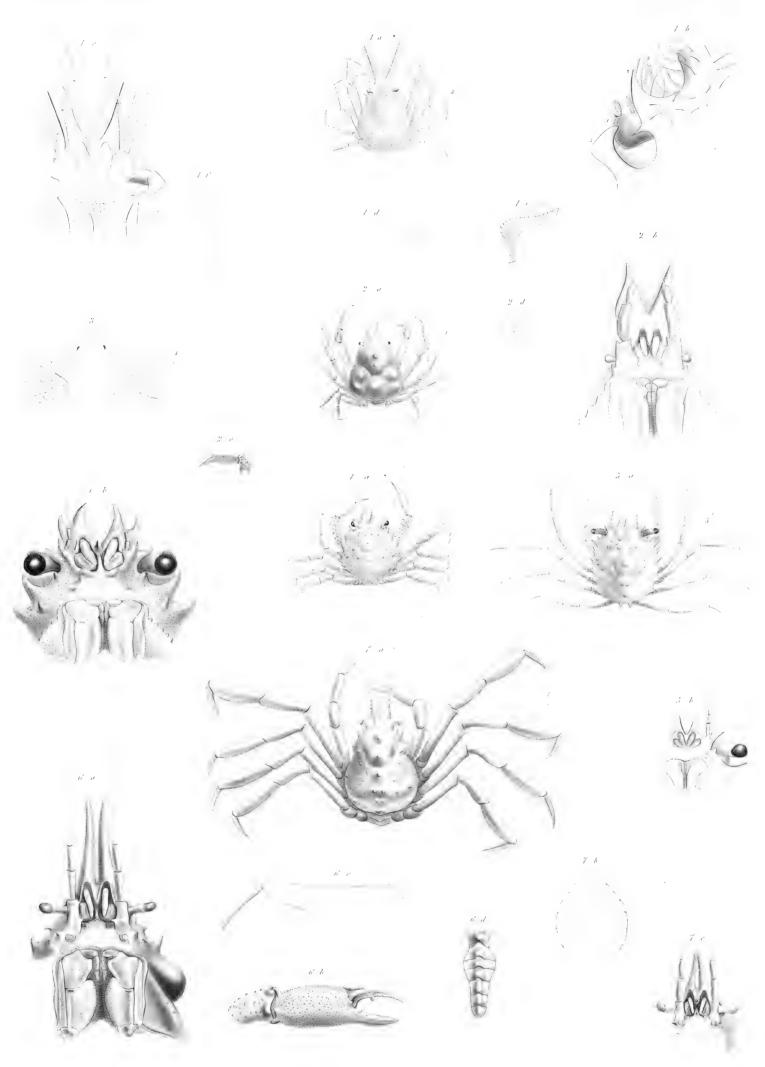
1 a. d. Hyas Iyratus. 2 a. b. Pisoides Edwardsii.

5 a d. Chorilia longipes.

5-a. d. Libidoclea coccinea. 1-a e Micippa hirtipes.

Brawn by A.D.Dana

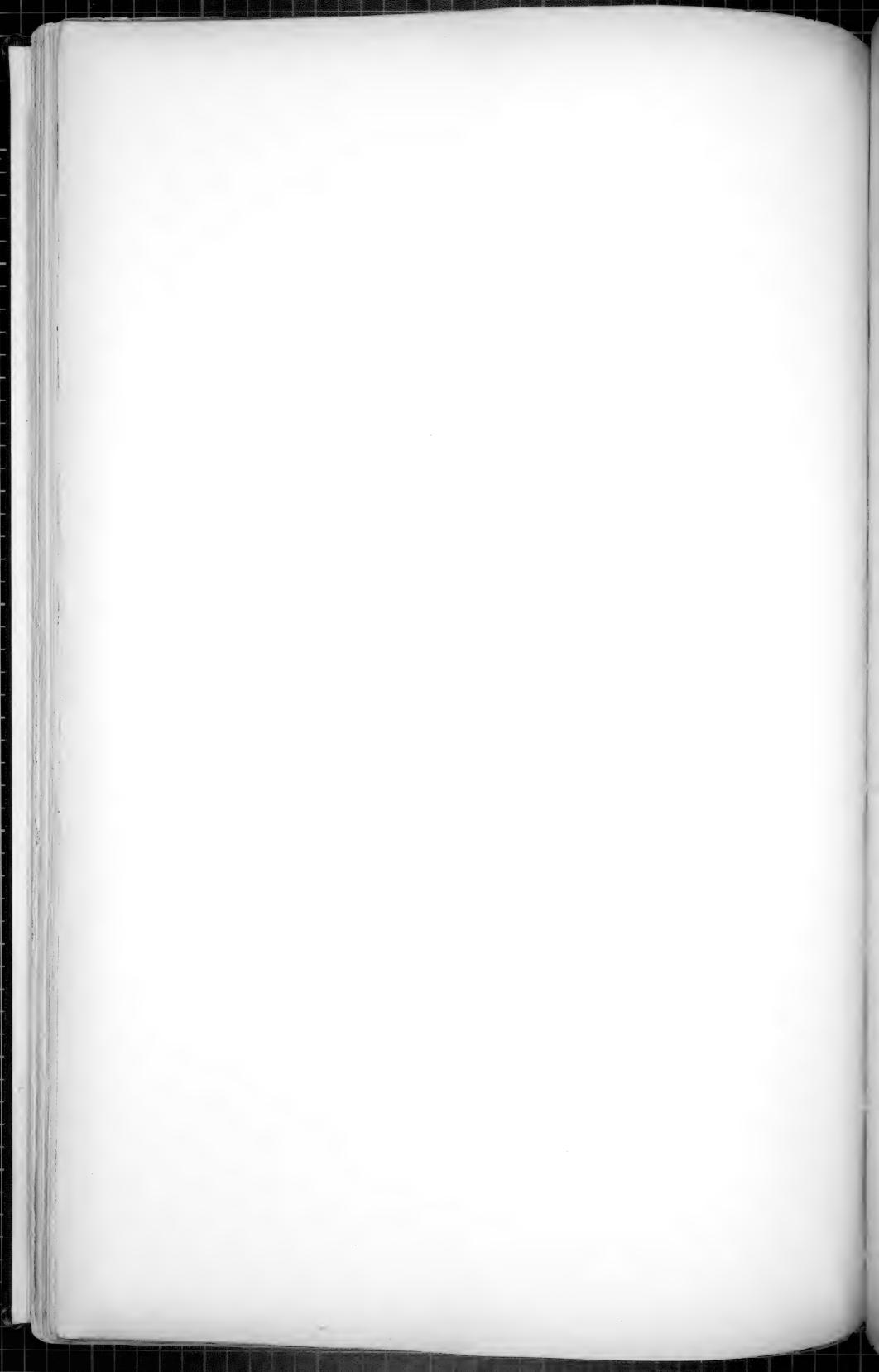


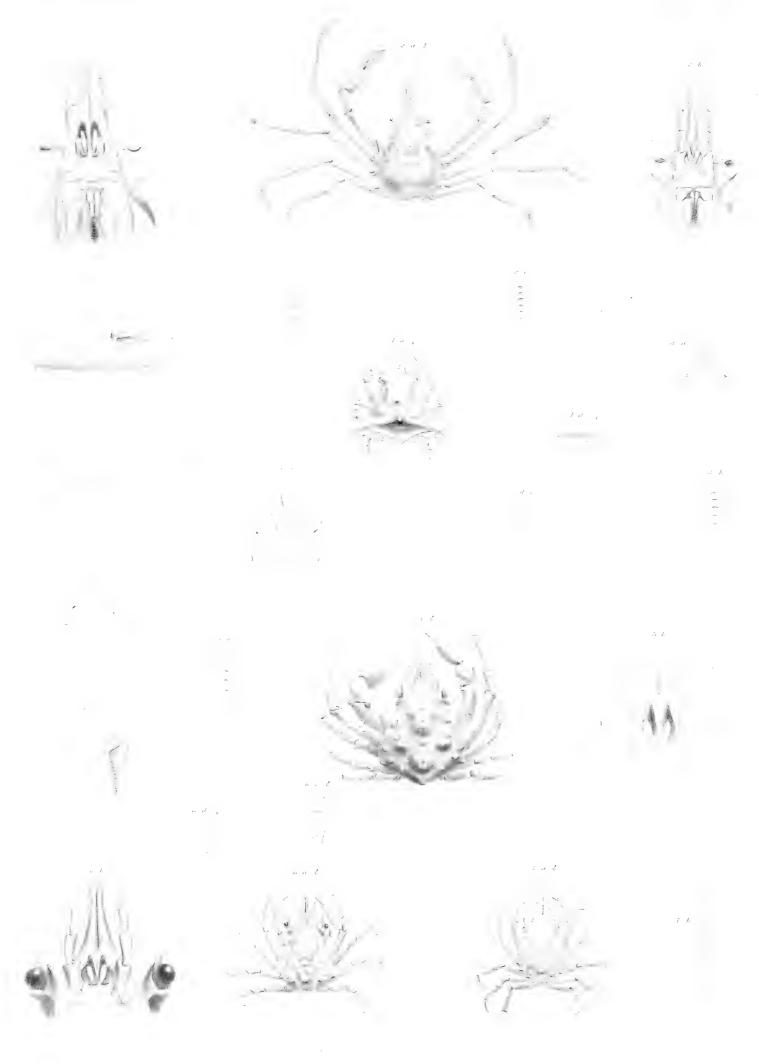


7 a. .c., E. brevipes.

4 a. b. Mithrax asper.
5 a. b. Cyclax Perryi.
6 a. d. Eurypodius septentrionalis

¹ a..f. Lahaina ovata.
2 a..d. seyra acutifrons.
5 Pyria pubescens.



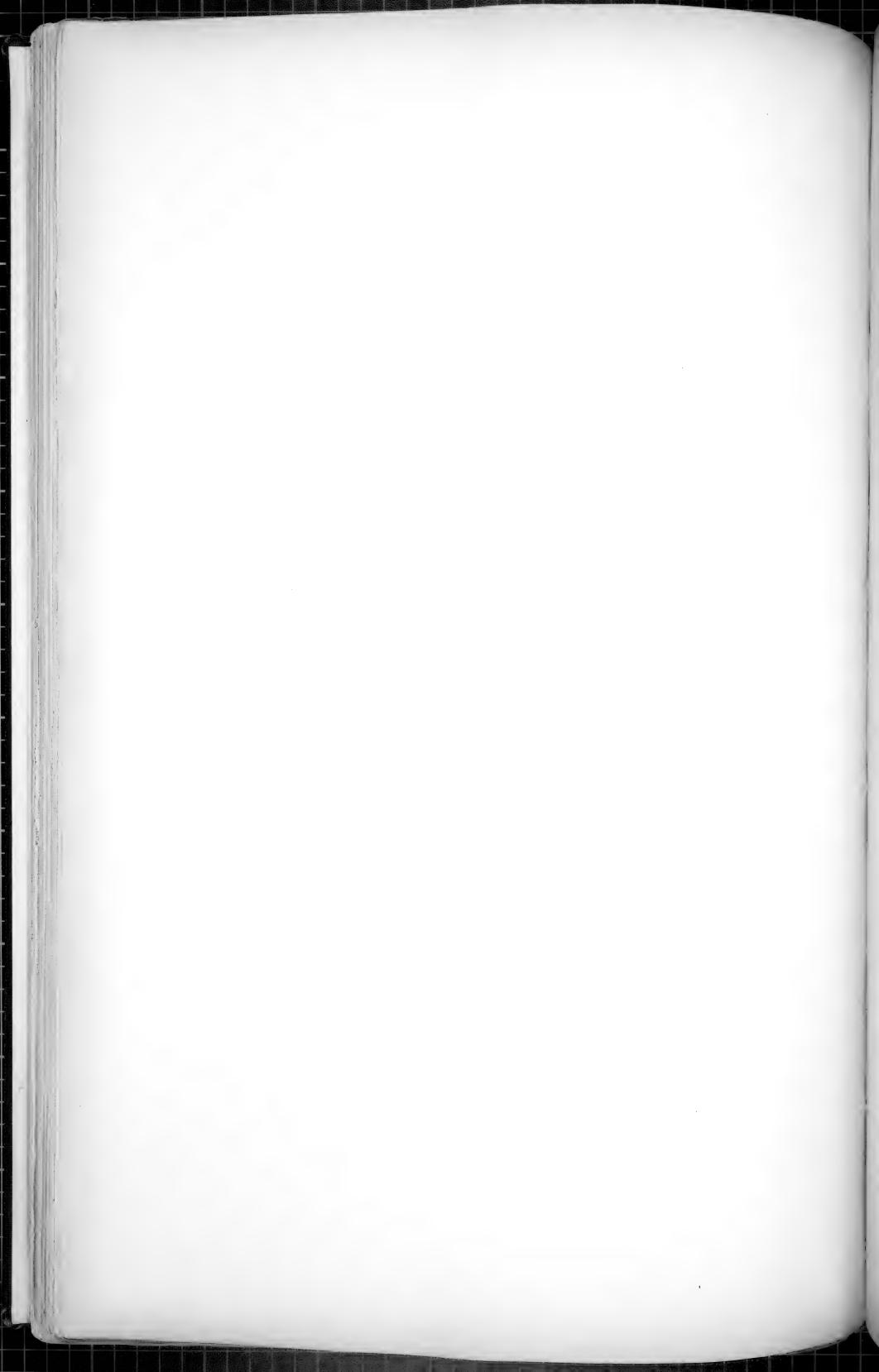


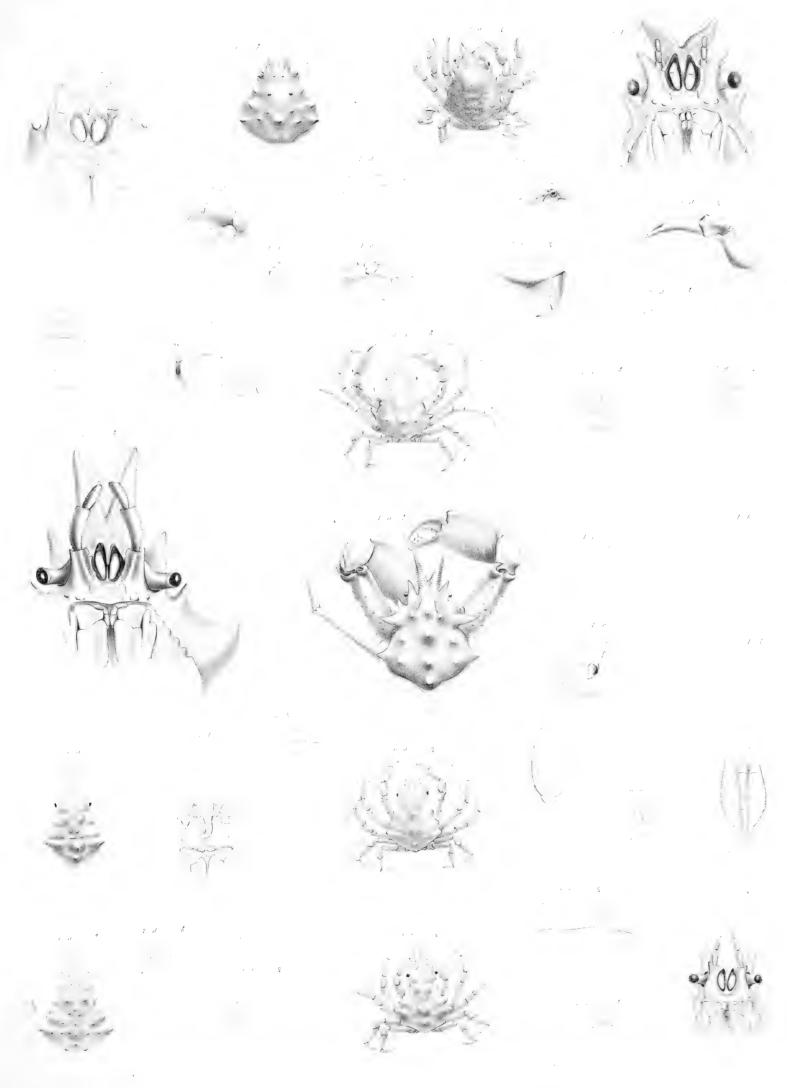
1 a. d. Eurypodius Latreillii. 2 a. e Oregonia gracilis. 5 a. b. hirta.

7. a. b. Tiarinia angusta.

4 a..d. Pericera trigona. 5 a e Tiarinia cornigera. 6 a. d. gracilis.

17/1 E/// e A.

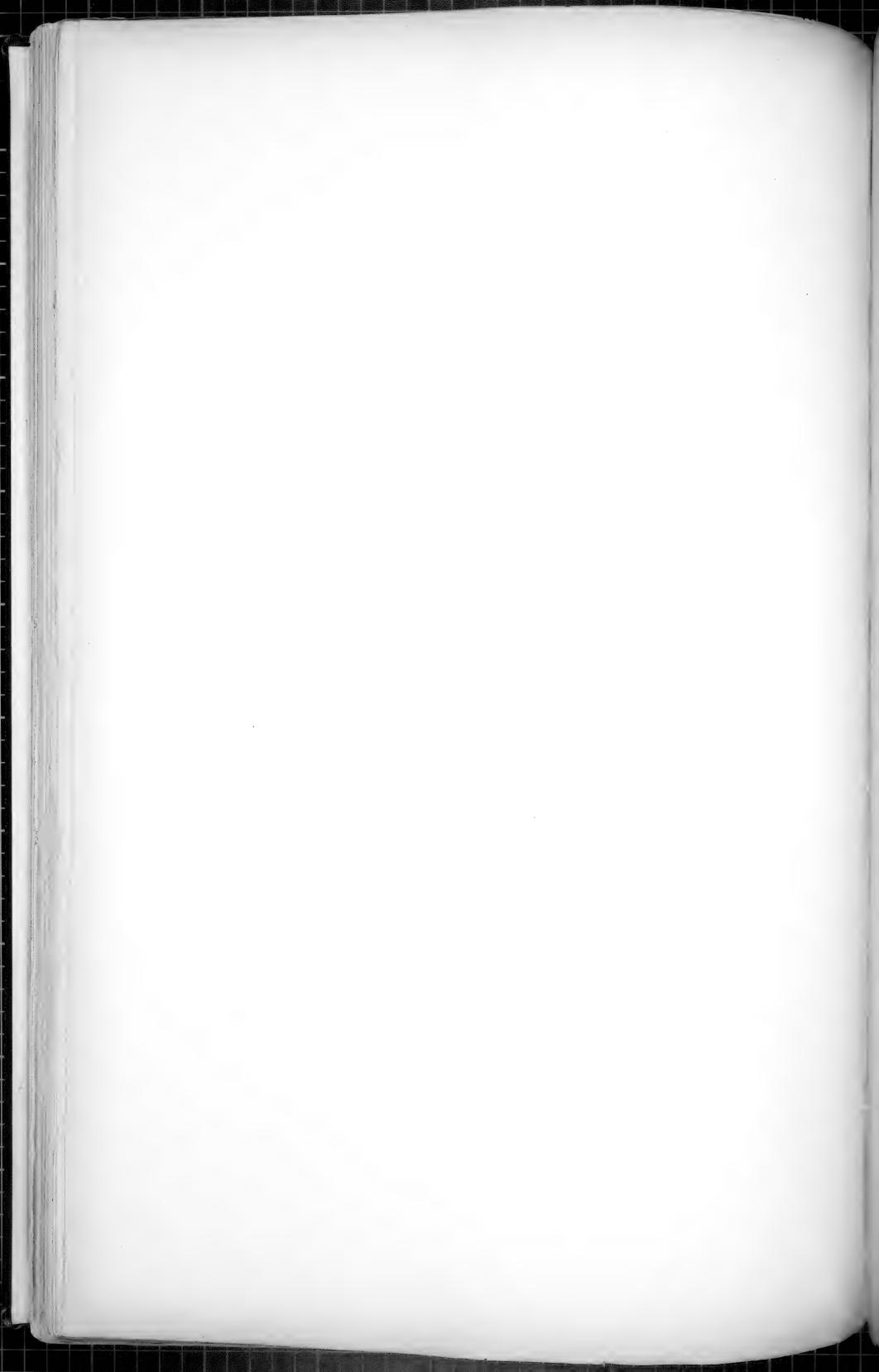


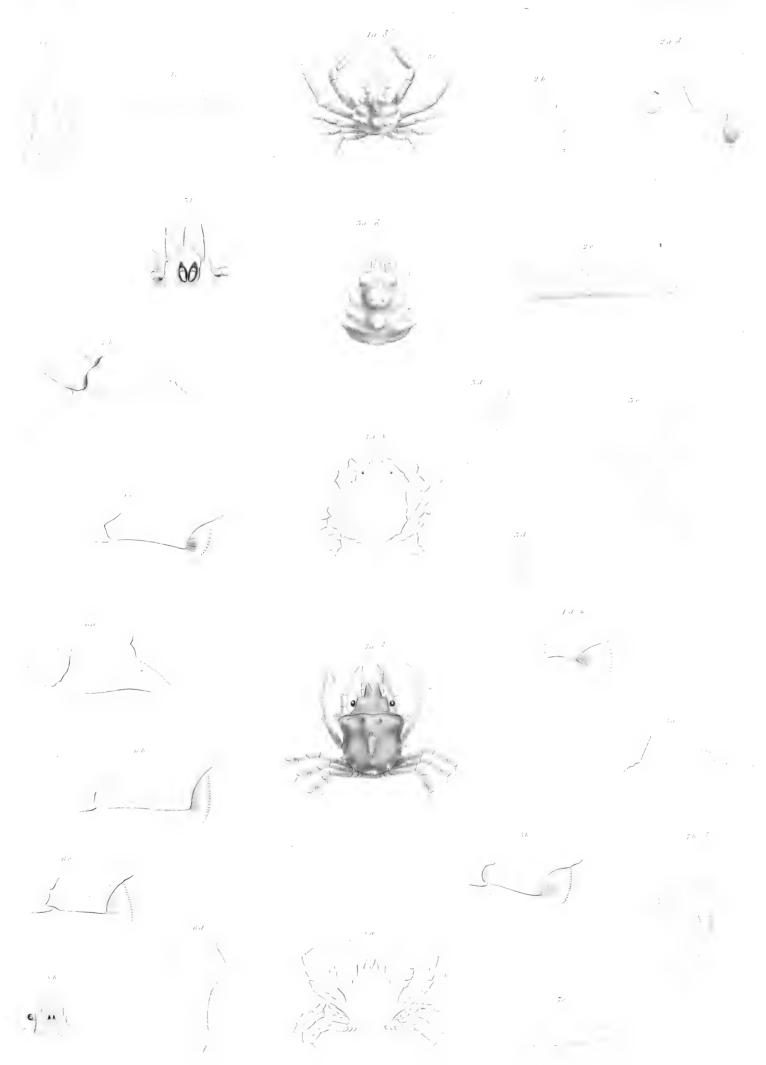


1 a..f Perinea tumida 2 a.g Halimus tumidus. 5 a.c. Pugettia gracilis.

7 a g Menathius subservatus

1 a e Pugettia Richii 5 a b Menathius augustus 6 a e depressus





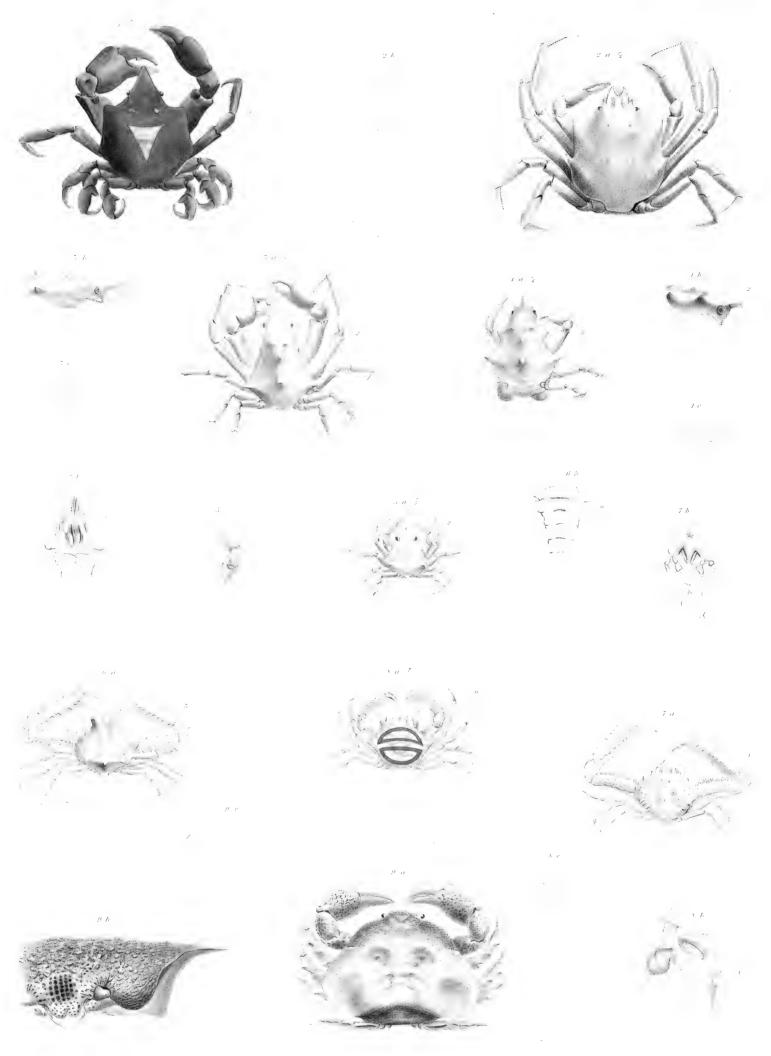
1a...c.Menæthius tuberculatus.2a...c.arcolatus.5a...d.inornatus.4a...d.Acanthonyx simplex.

5 a. b. Acanthonyx debilis.
6 a. d. Petiverii.
7 a. c. Peltinia scutiformis. A.P. Grand, for.
8 a. b. nodulosa.



C. S. Exploring Expedition.

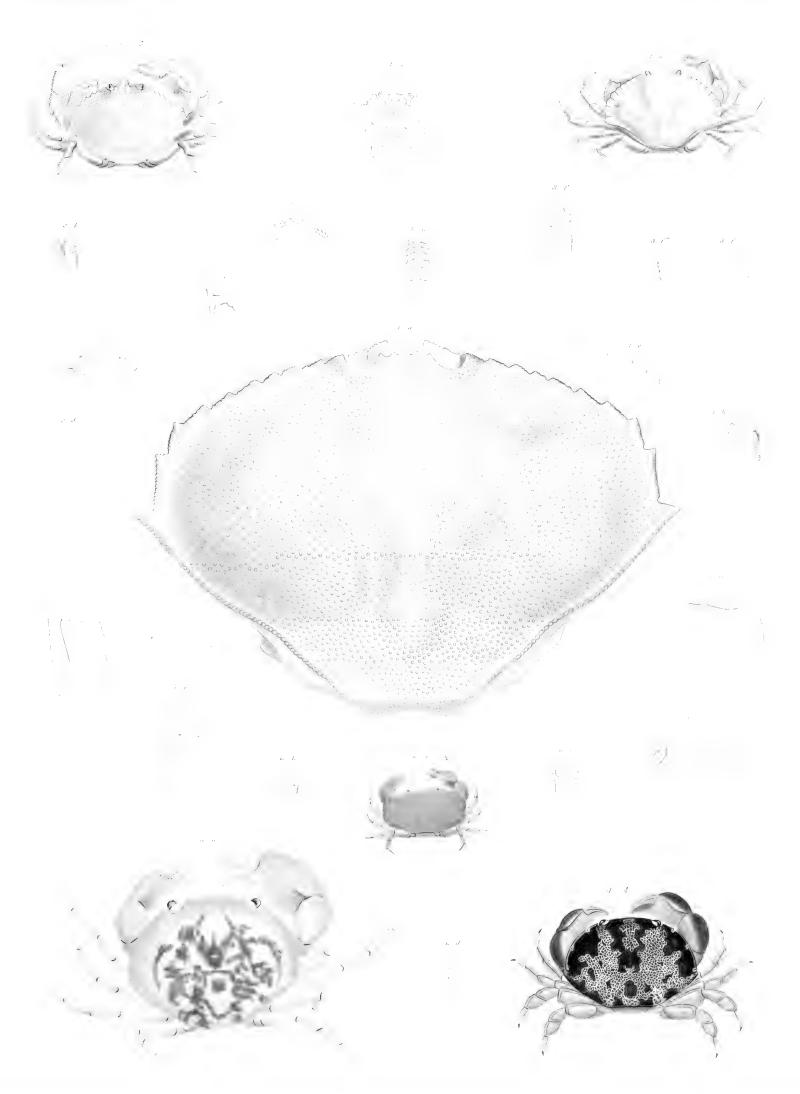
MAIOIDEA, Pa. 6,



5 a., e. Leucippa levis. 6 a. b. Lambrus gracifis. 7 a. b. rhombicus. 8 a., c. Ceratocarcinus speciosus.

Drawn by J.D. Dana

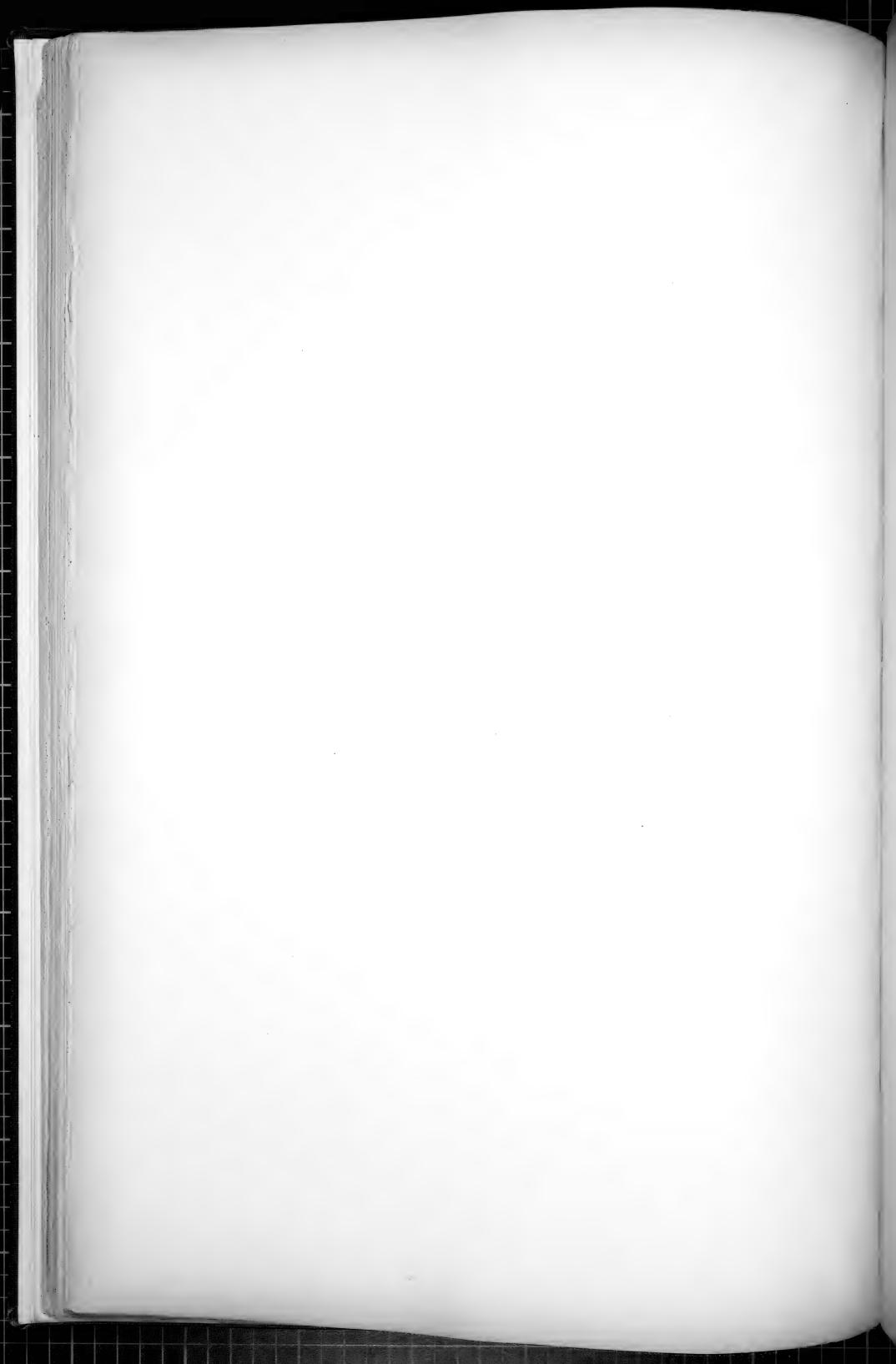


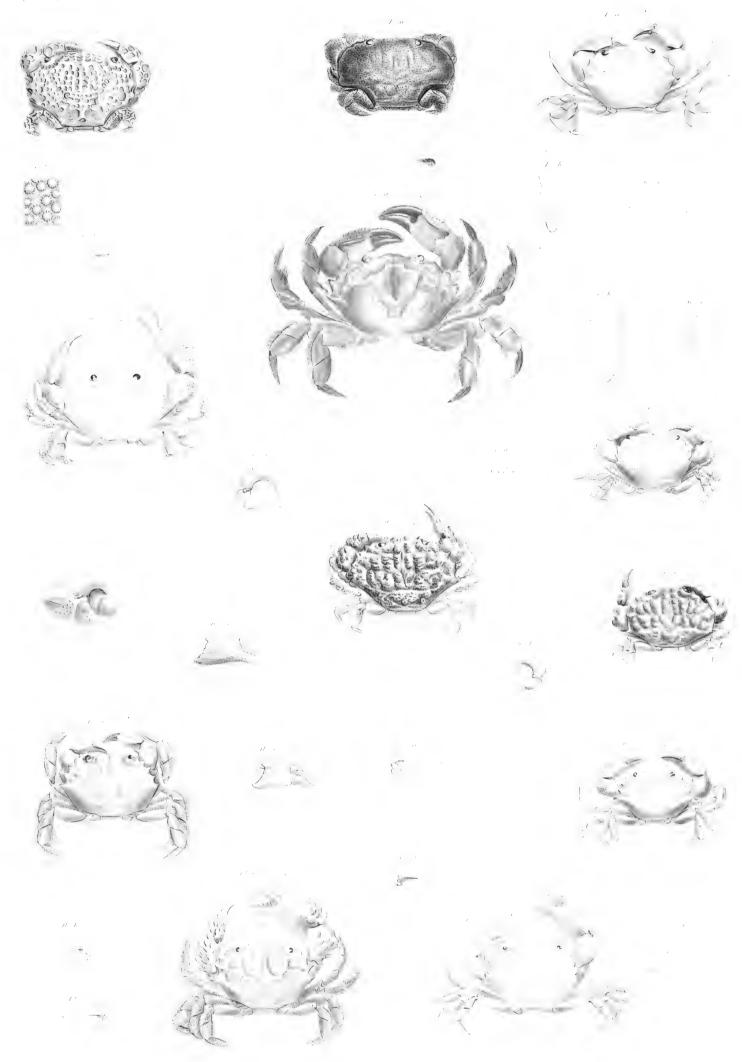


1 a..d. Cancer magister.
2 a..d. ____ gracilis.
5 a..h. ___ productus

gracilis. productus 1. Atergatis floridus 5 a., b. Carpilius convexus 6 a., d. Liomera lata

's In Wand.



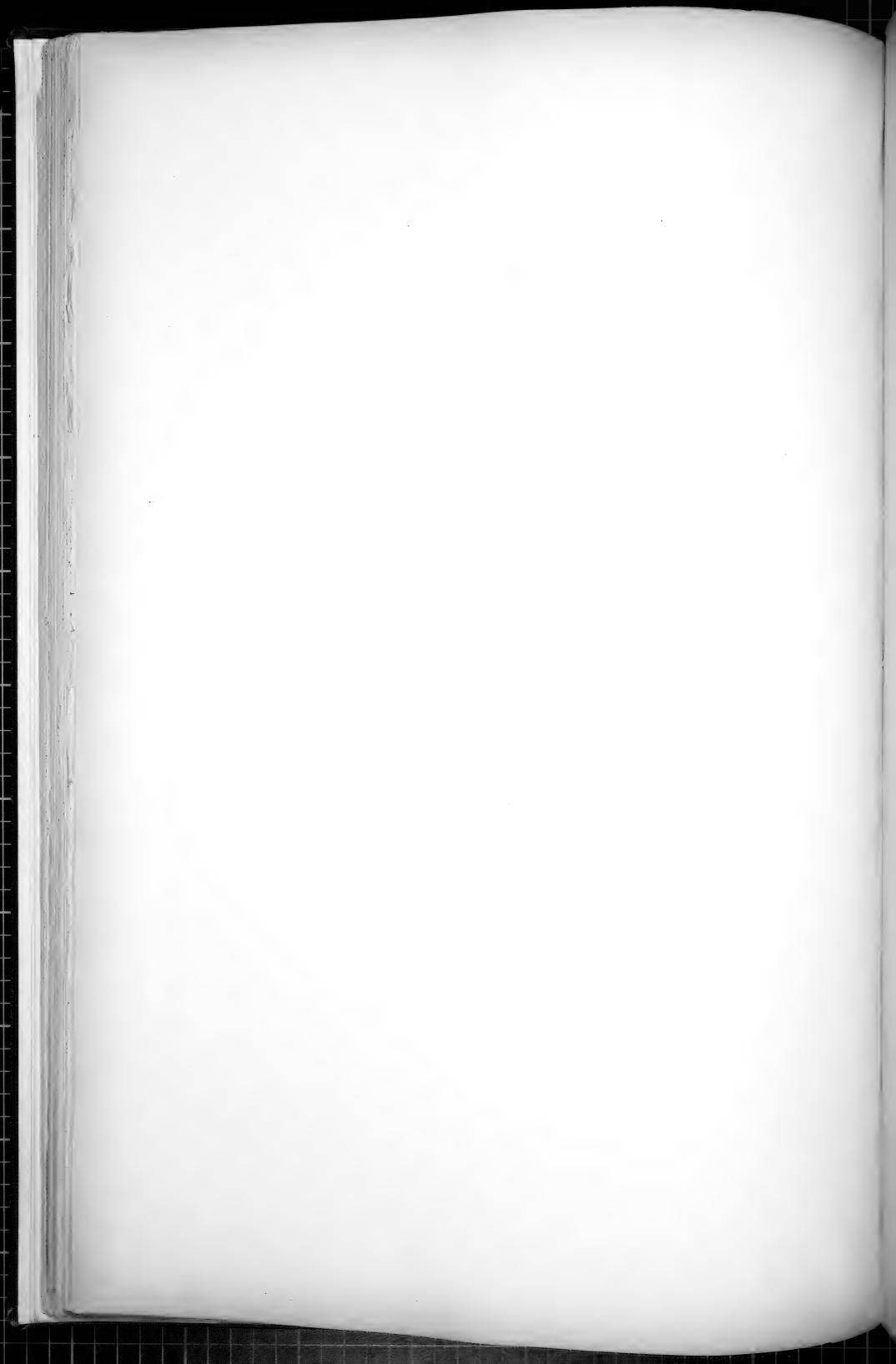


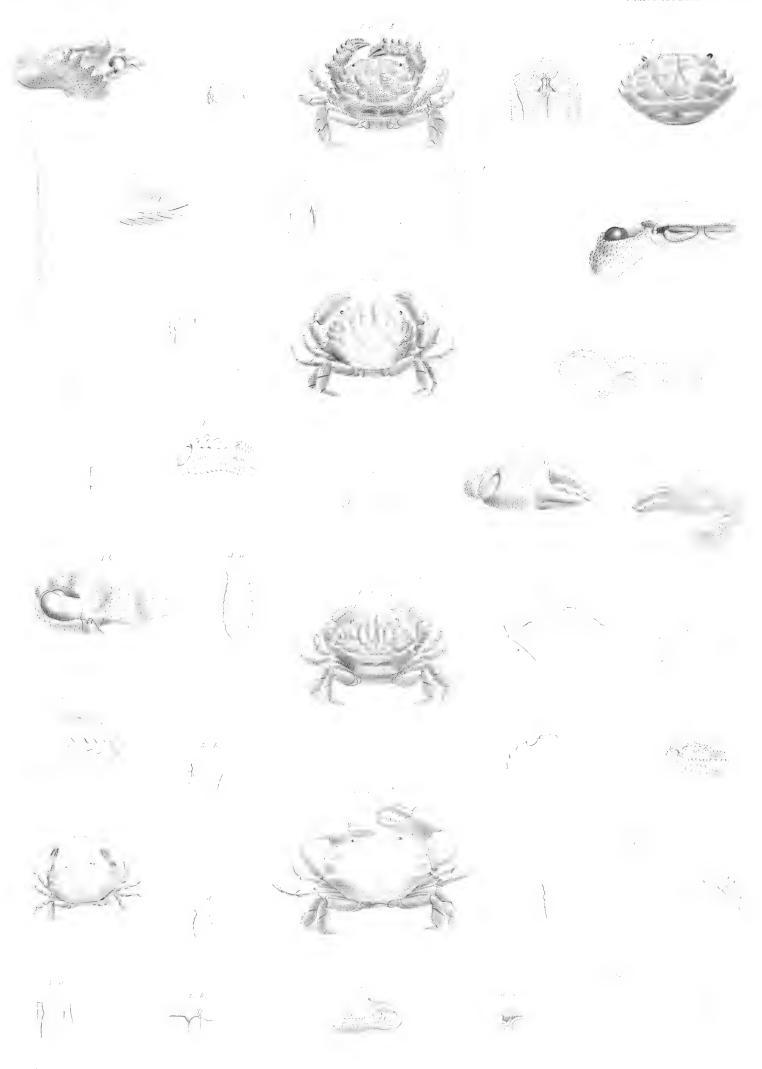
1. a. b	Actara	areolata.
2.		cellulosa.
5		hirsutissima.
1. a. b	. Xantho	nitidus.
5. a. b		superbus.
6. a. d		dispar.

15 a. c. Panopæus Levis.

7		Xantho	minor.
8. a.	d.	Euxanthus	sculptilis
IJ. a.	b.		nitidus
lo, a .	۲,	Zauthodes	gramoso manus.
II.a.	۲,		intidulus.
12 a	1,		notalus.

ttermer by Lb betreet.

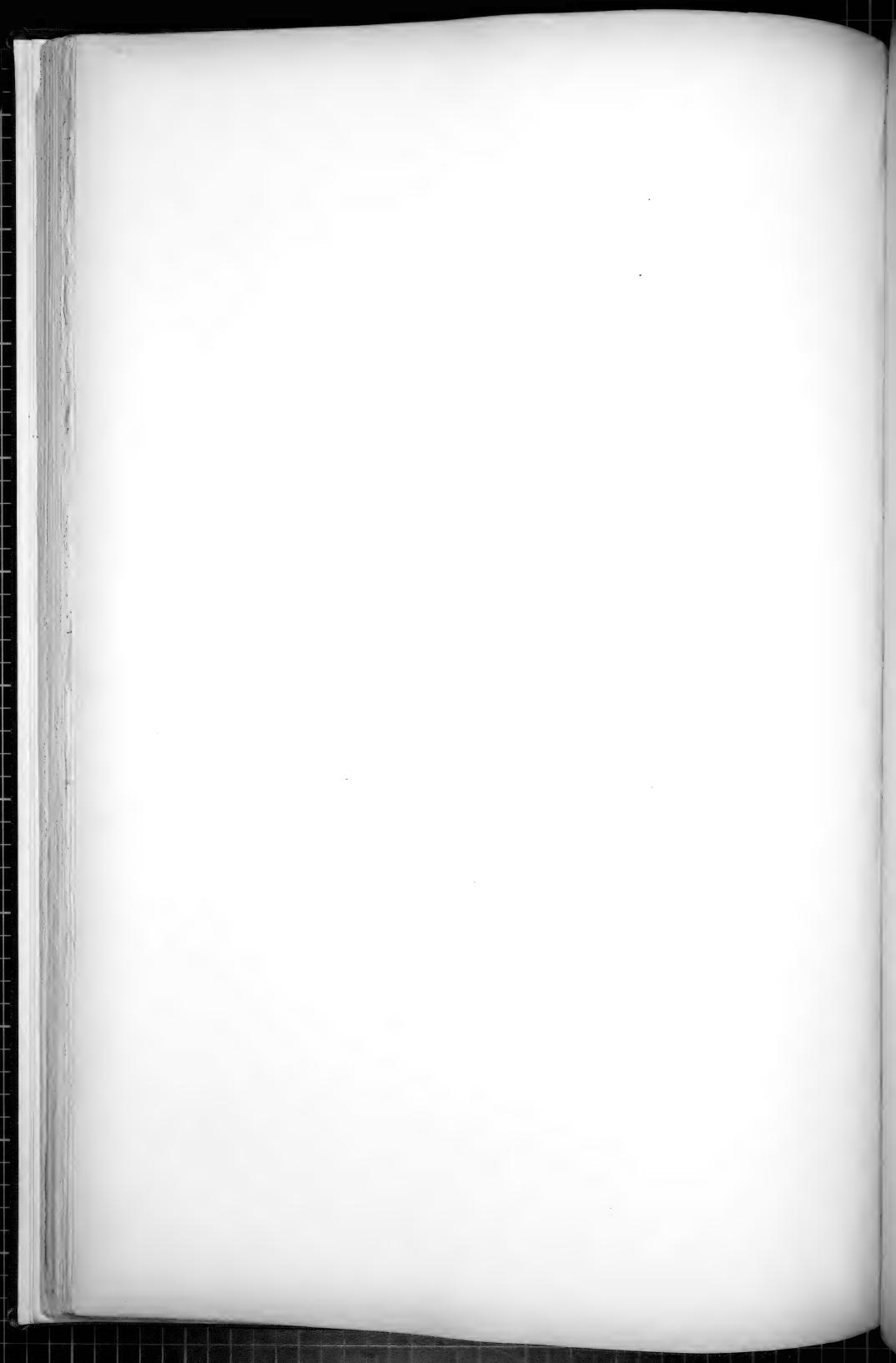




1	a g.	Medæus	ornatus.
:2	ah.	Etisus	deflexus.
5	ad.	Etisodes	frontalis.

5 a..d. Etisodes frontali 1 a..d. celatus 5 a..e. Zozymus laevis C.a. S. gemmula 7 a..d. Carpilodes tristis 8 a..d. Actaeodes areolatus

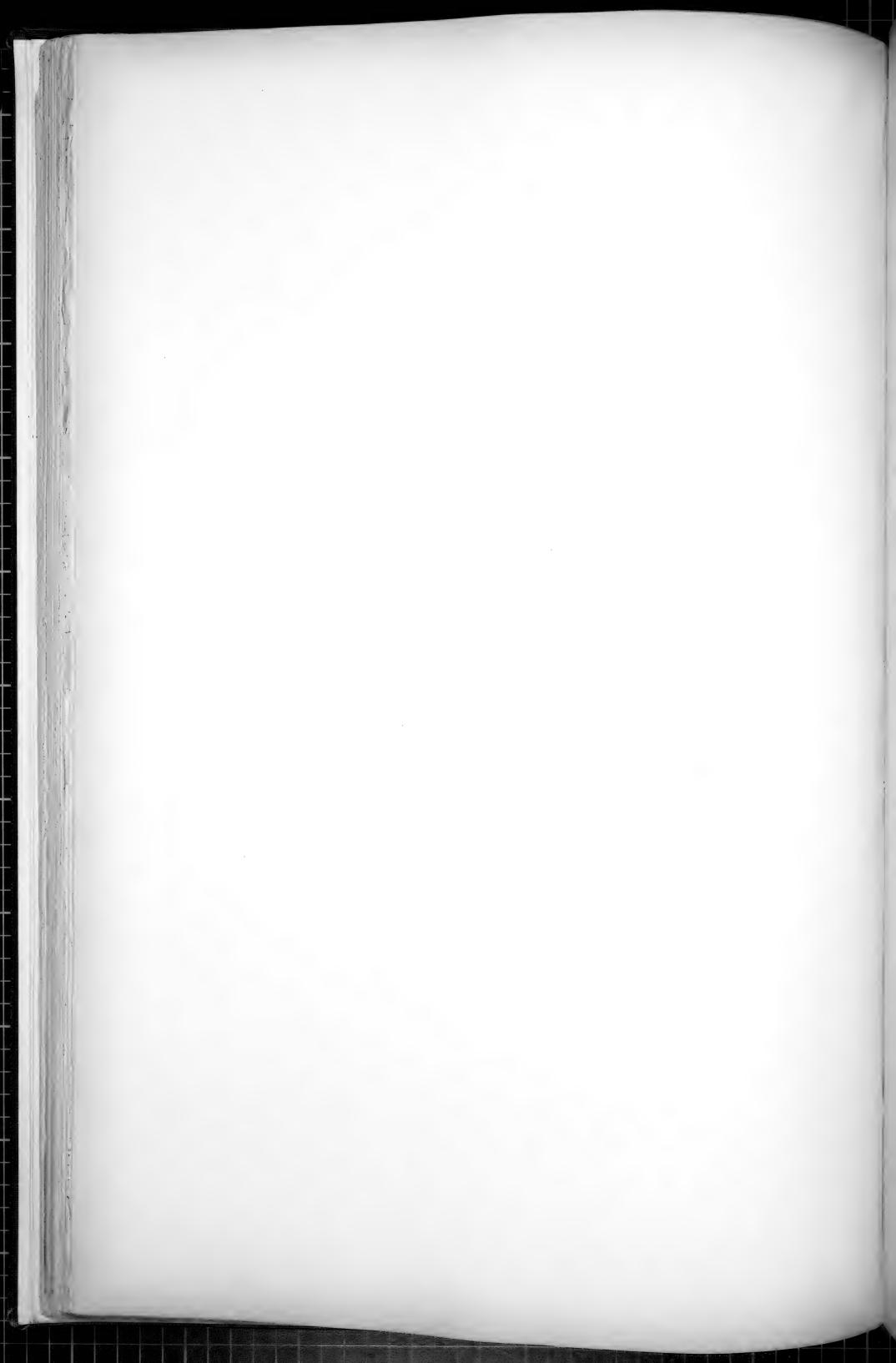
Drawn by J D Dana

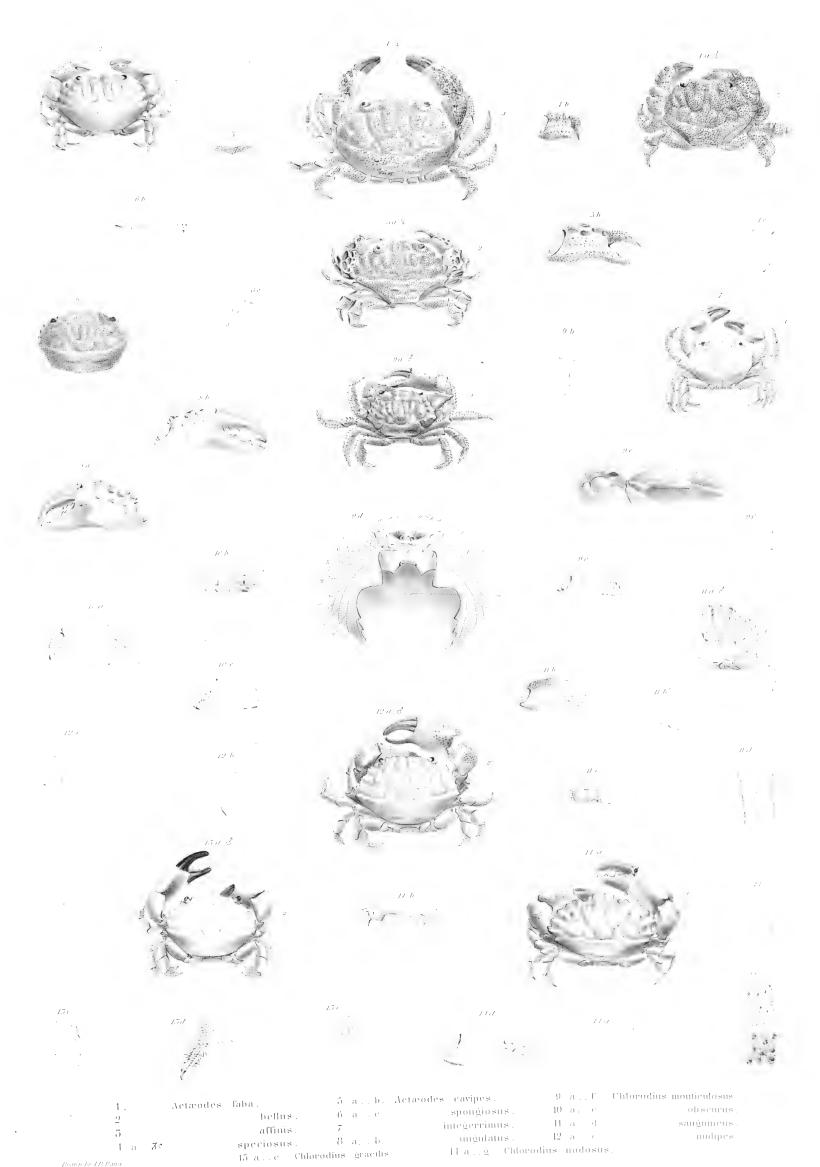




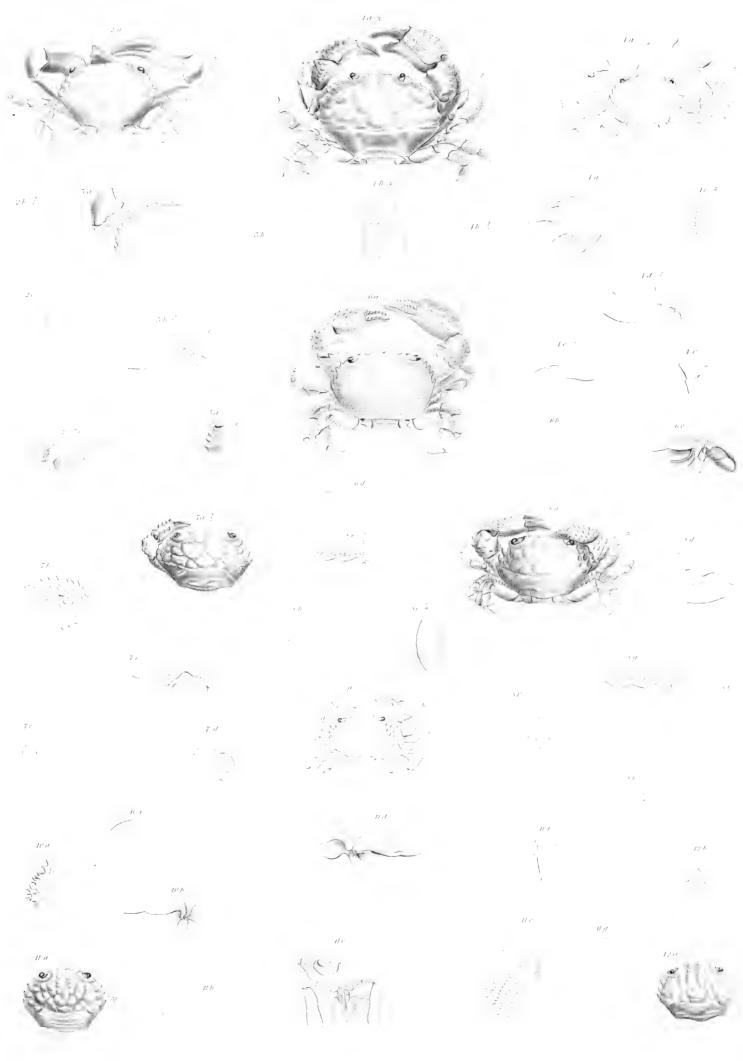
1 a...b. Etisus levimanus. 2 a. b. Etisus dentatus.

5 Zozymus æneus 4 a., d. Daïra variolosa







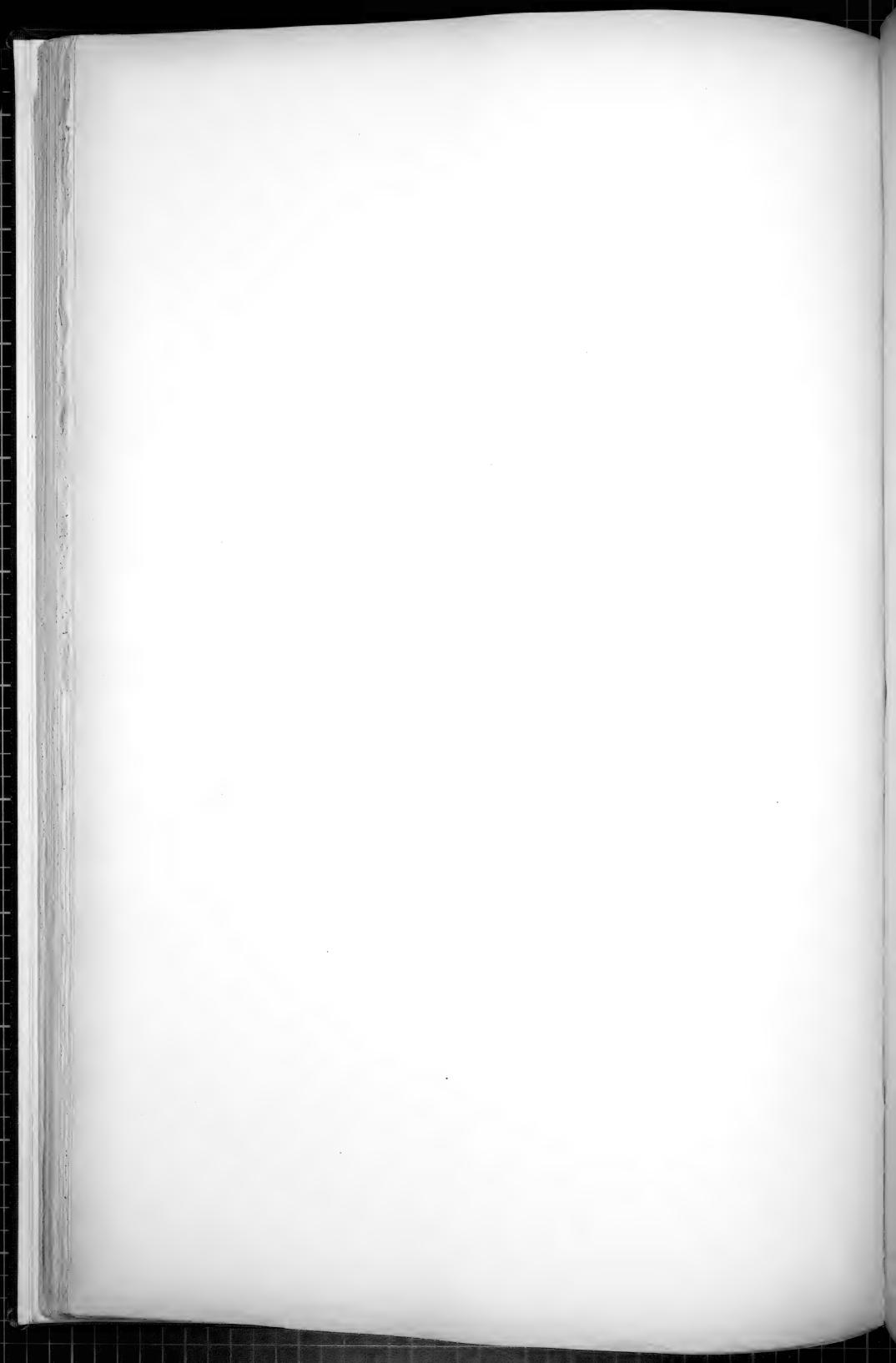


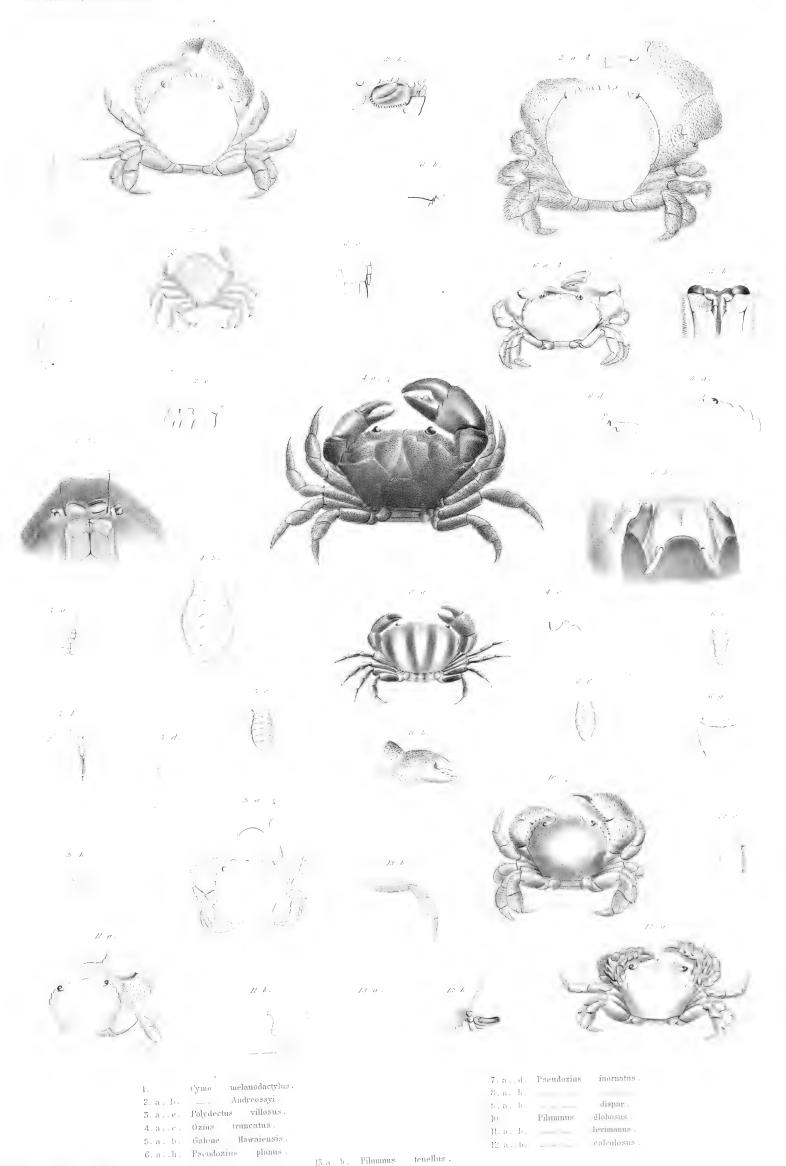
1 . b Chlorodius cavipes.

2 a...c cytherea.
3 a...b nebulosus.
4 a...f levis simus.

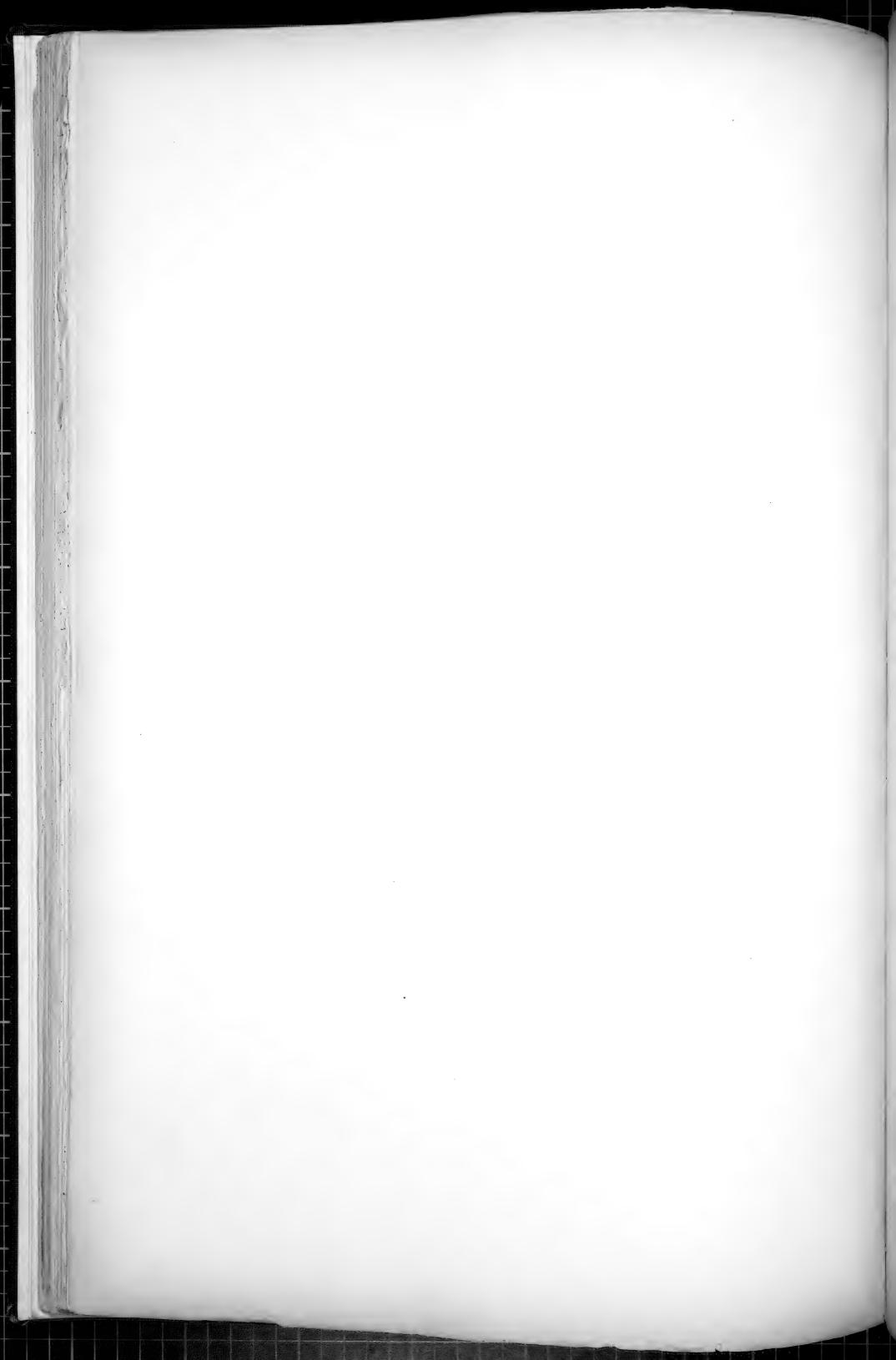
5 a...c Chlorodius niger.
6 a...d Pilodius pubescens.
7 a...e nitidus.
8 a...i pugil.

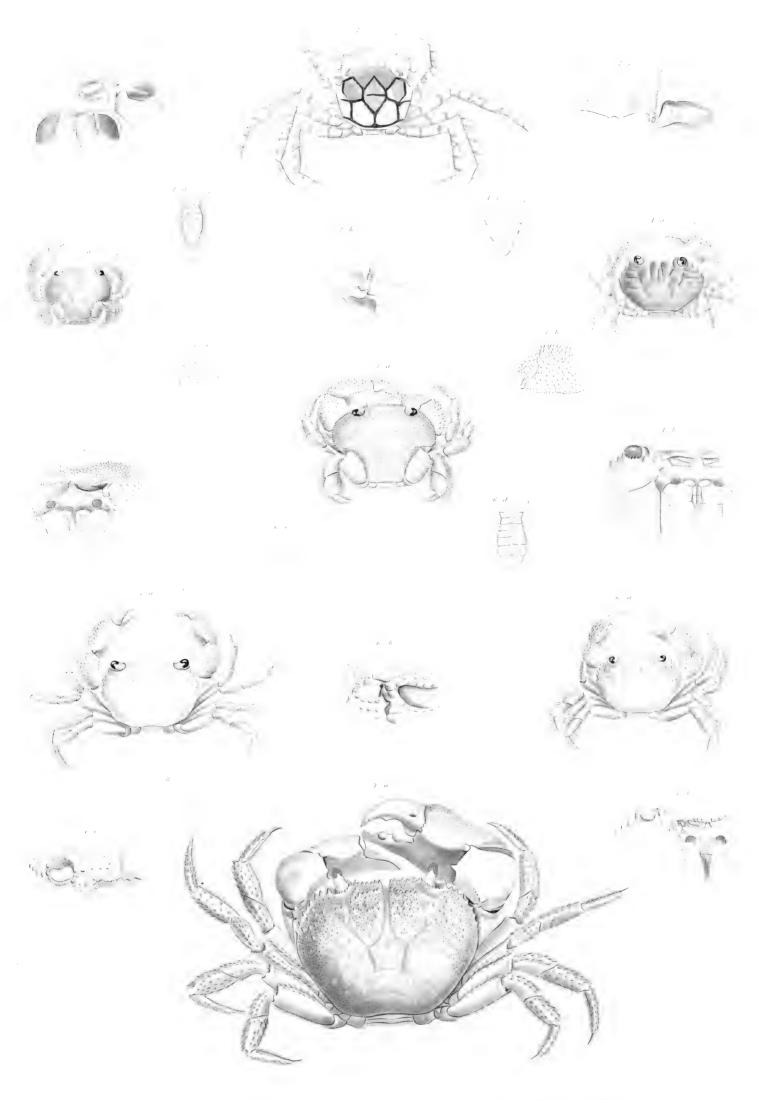
9. Pilodius scabriculus 10 a.c pilumnoides. 11 a.g Cyclodius ornatus. 12 a.b gracilis.





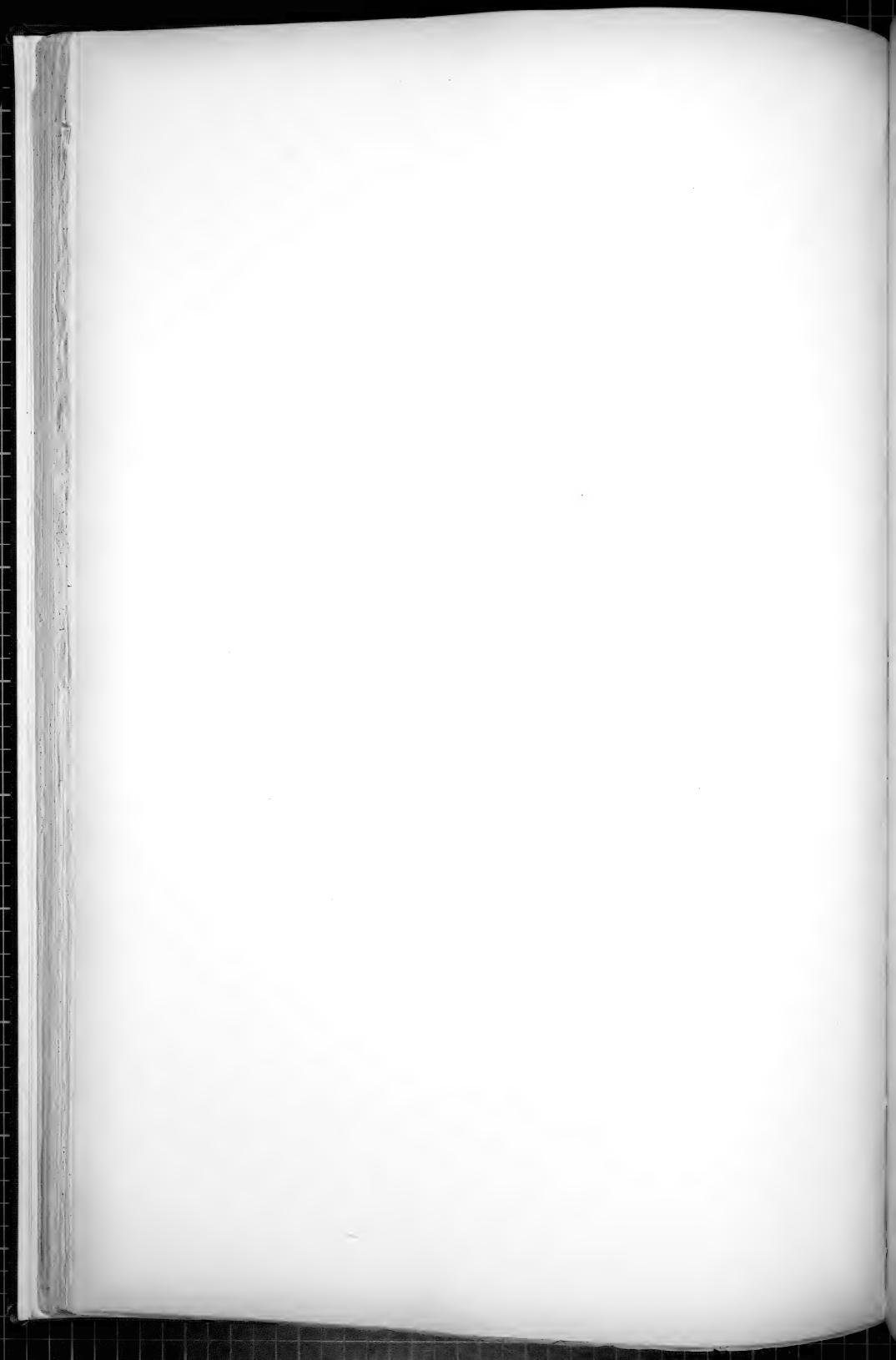
15.a.b. Pilumnus tenellus.

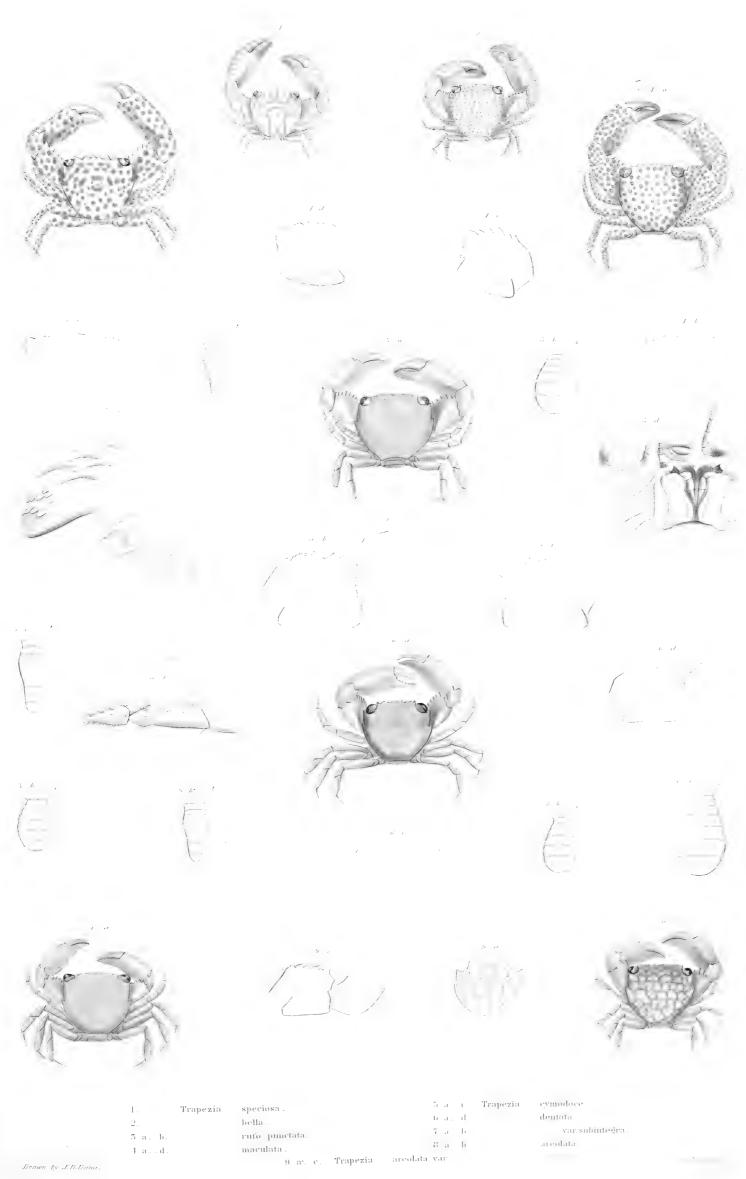




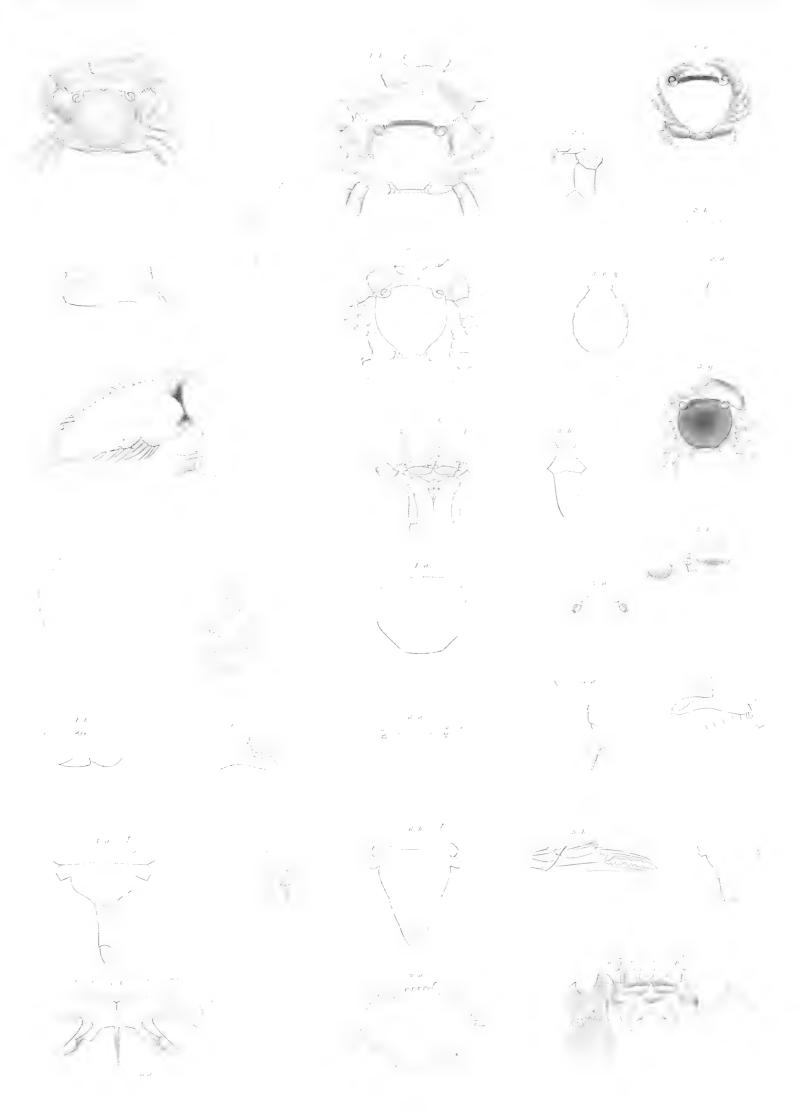
1 a. d Melia tessellata.
2 a c Actumnus tomentosus.
5 a. b. obesus.
1 a . c Ruppellia aunulipes.

5 a. b. Eriphia scabricula 6 a..d. armata. 7 a..c. . levimana. 8 gonagra.









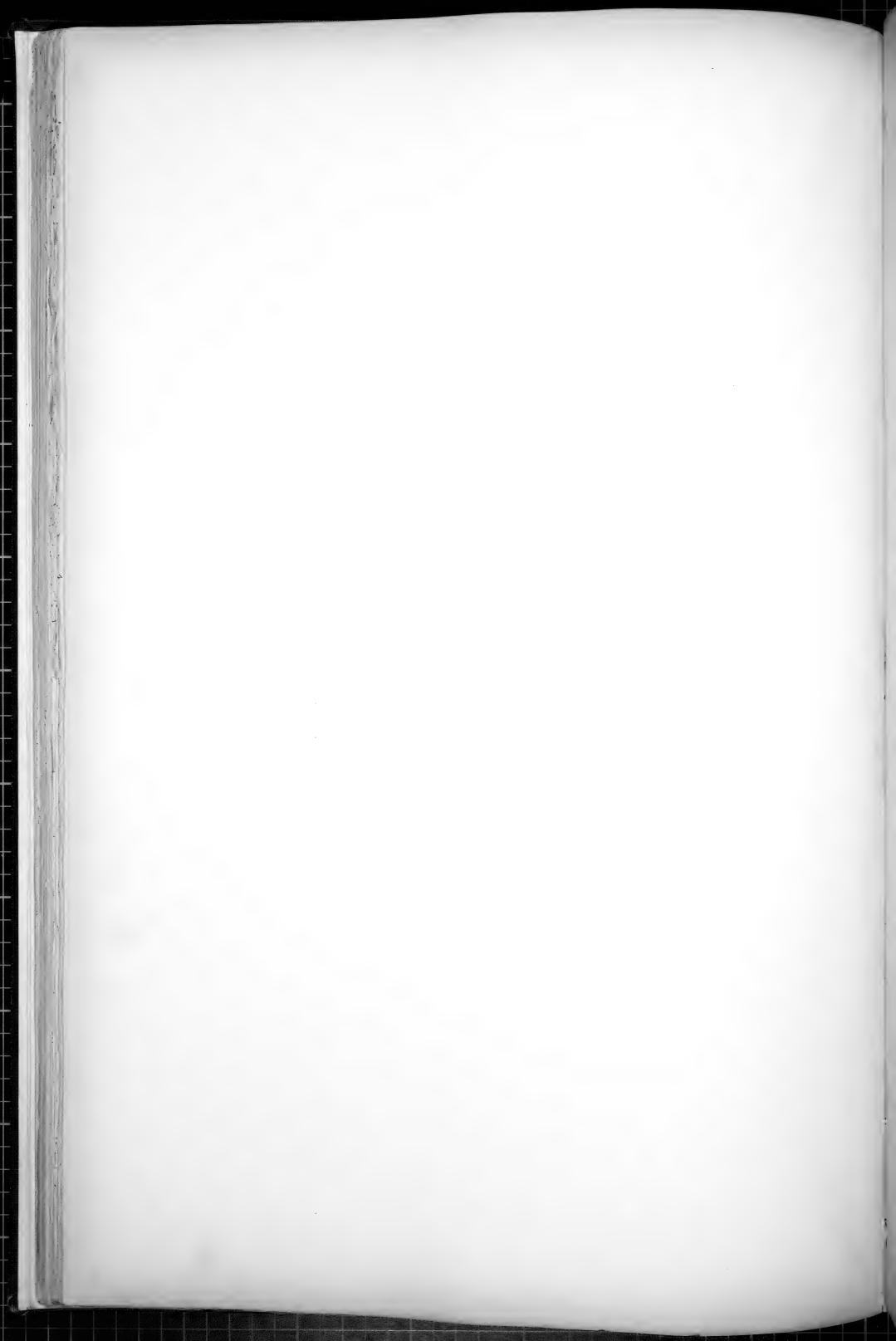
l a b. Trapezia ferruginea. 2 a . d. Tetralia nigrifrons.
5 a . glaberrima
1 a. c armata.

glaberrima

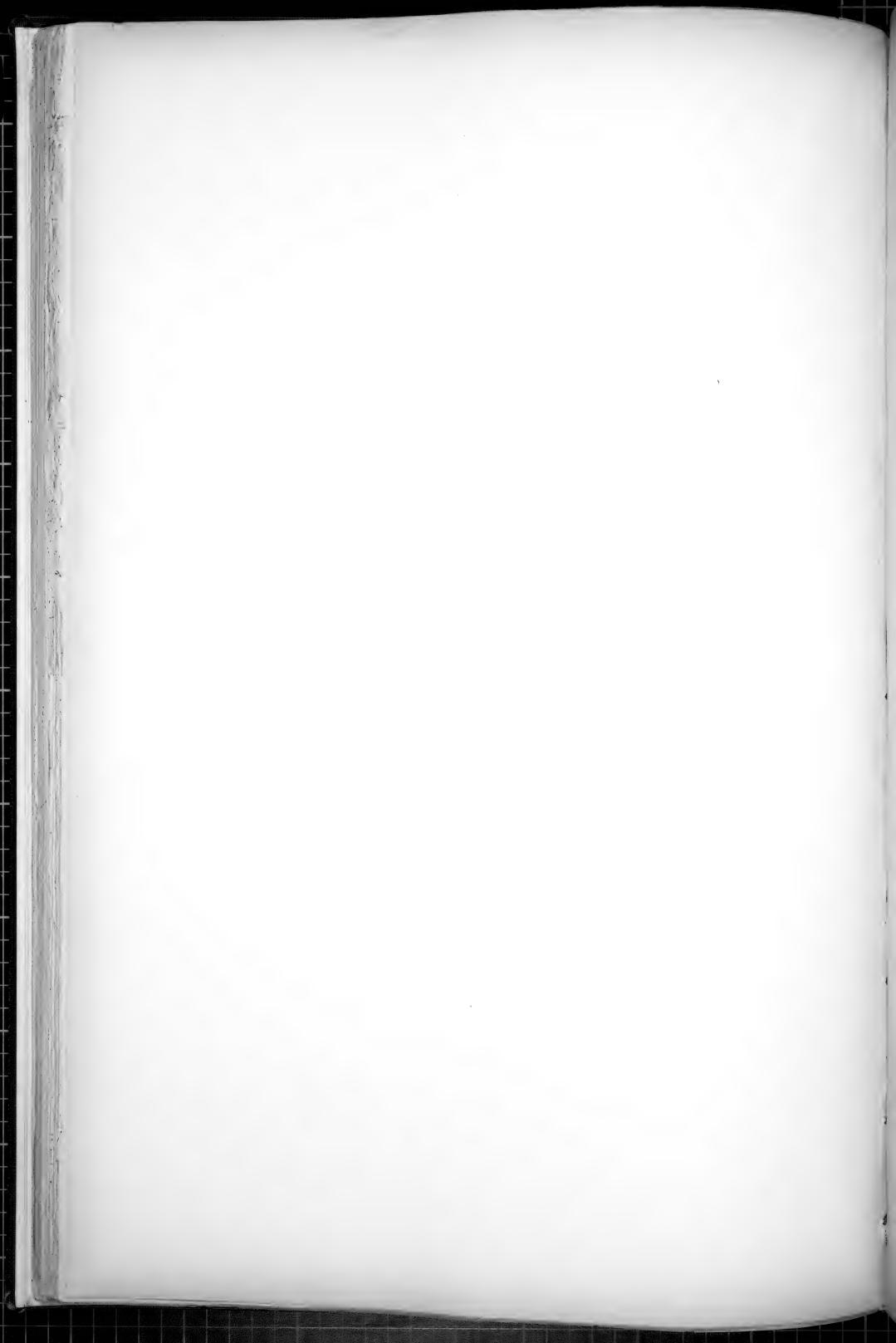
5 a. d. Quadrella coronata

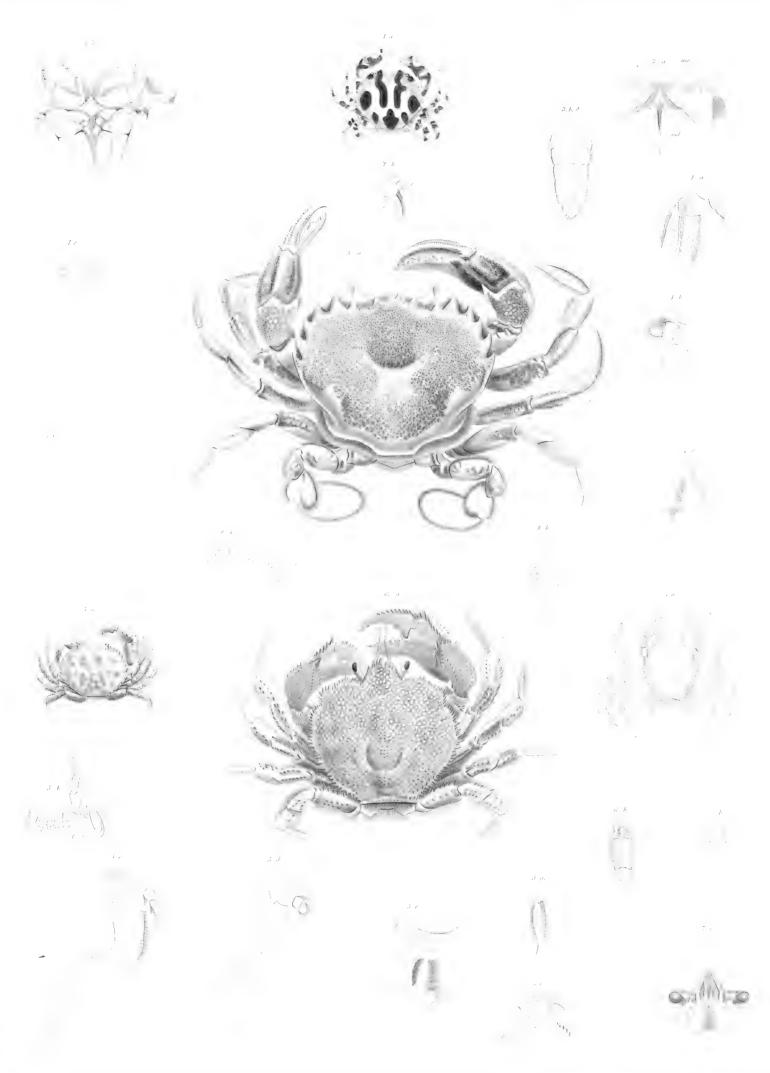
6 a. b. Scylla tranquebarica
7 a. c. Lupa dicamba
8 a. Sayı

9 a. . c. Lupa pulescens









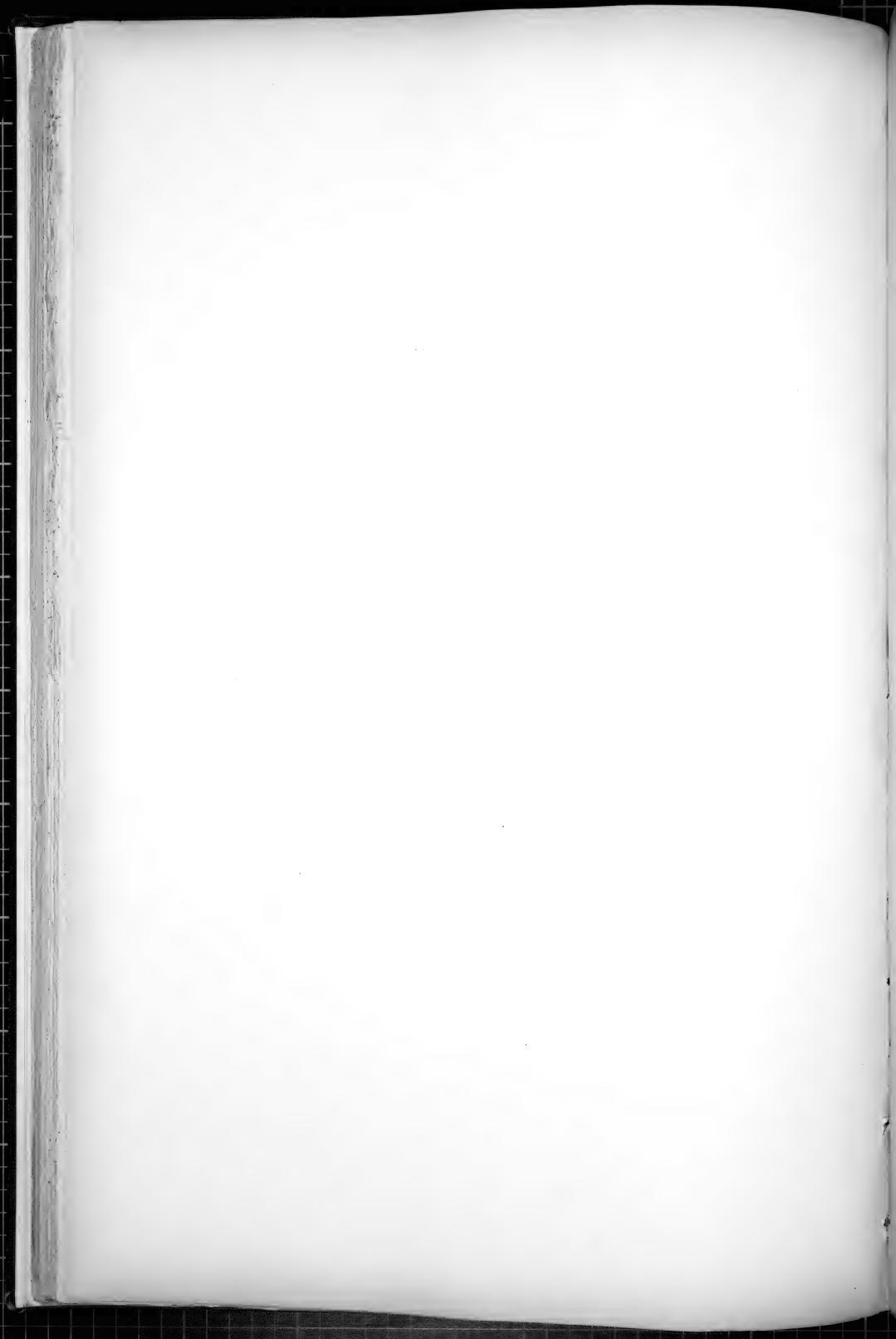
l a. .e. Lissocarcinus orbicularis.

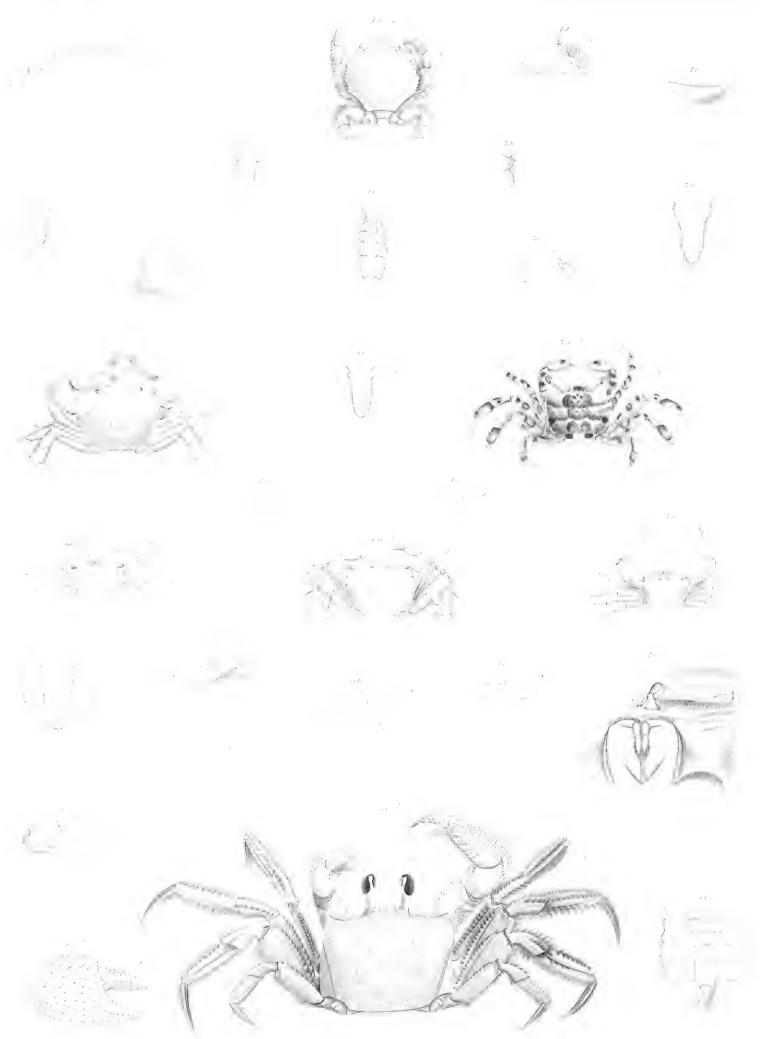
2 a. b. Arenæus cribrarius.

Platyonychus purpureus.
 a. .c. Acanthocyclus Gayi.

5 a. .g. Trichocera oregonensis. 6 a. b. Peltarion spinulosum 7 Gomeza serrata.

8 a. b. Telmessus serratus.

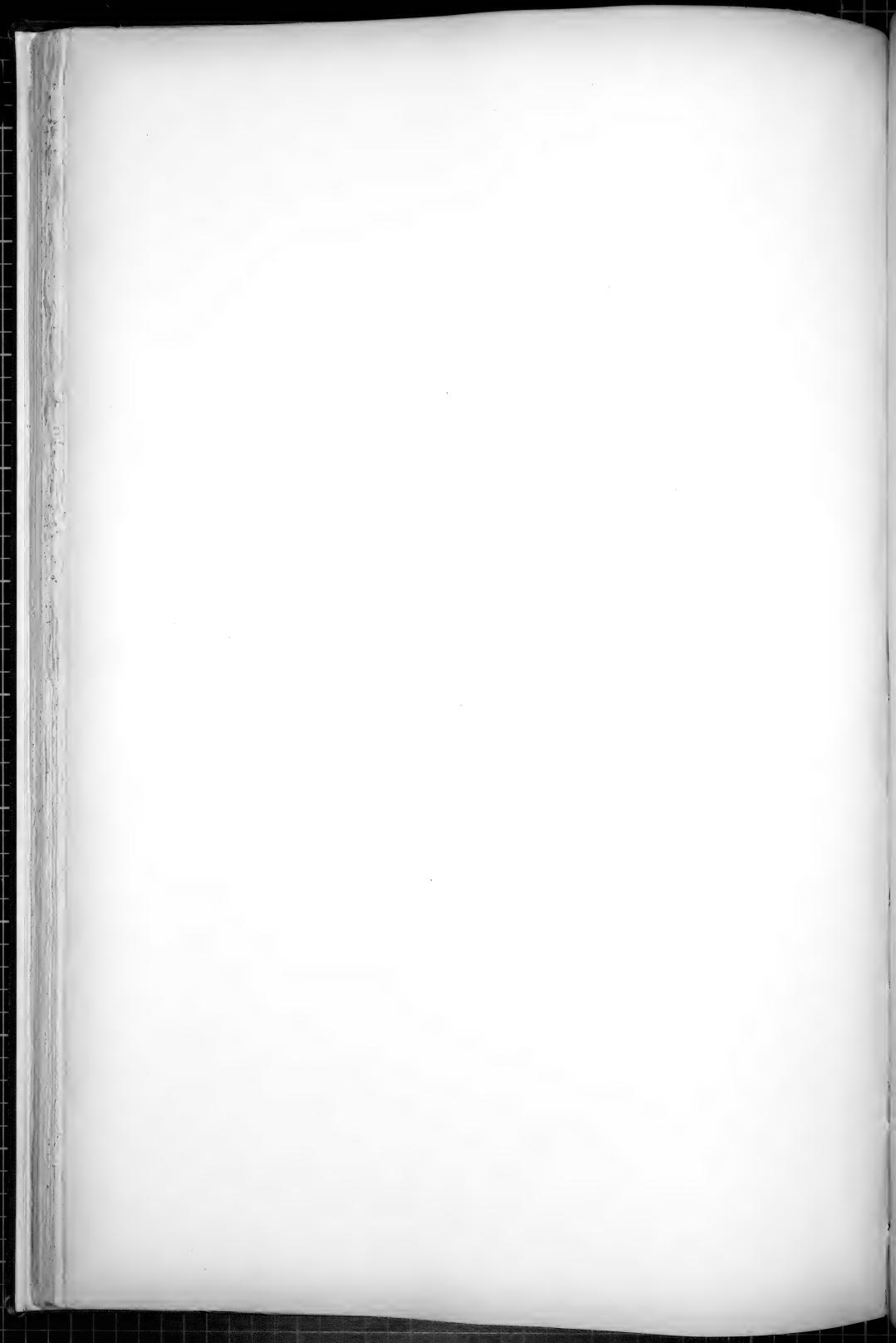


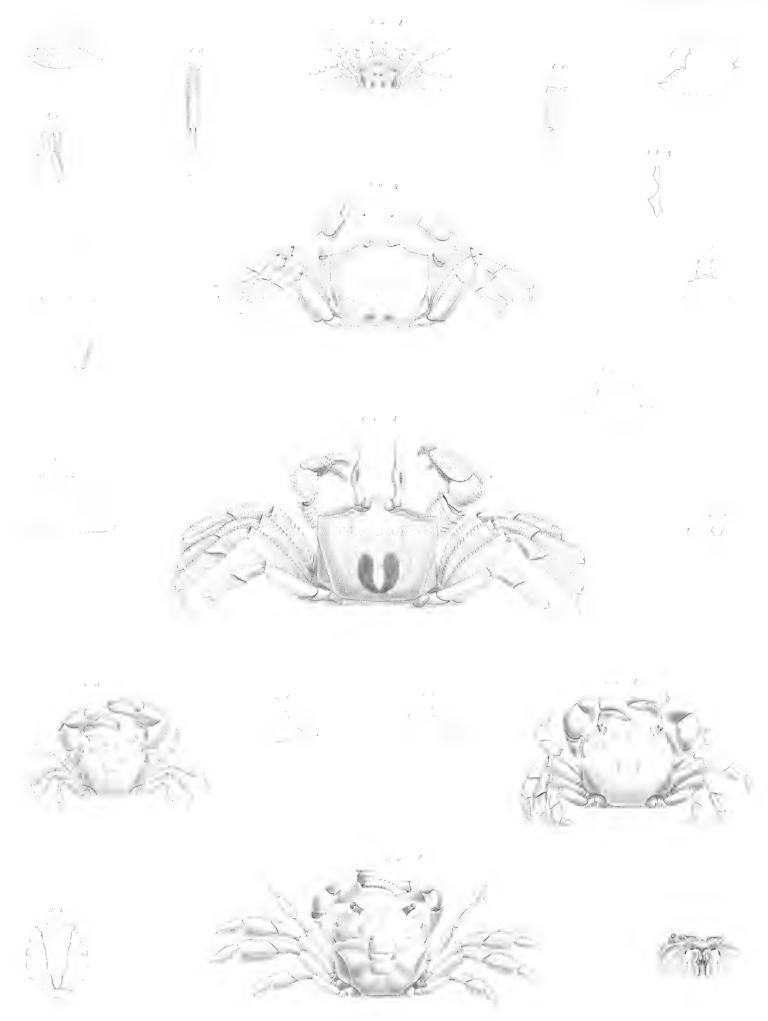


1 a., f. Kraussia rugulosa. 2 a., d. Eucrate crassimanus. 3 a., d. Cleistostoma Boscii? 1 a., c. Macrophthalmus pacificus.

5 a d Gelasimus nitidus.
6 a. b. Helecius cordiformis.
7 a. c. . . inornatus
8 a. c. Ocypoda rhombea. inornatus.

Thrown by J.D. hana.

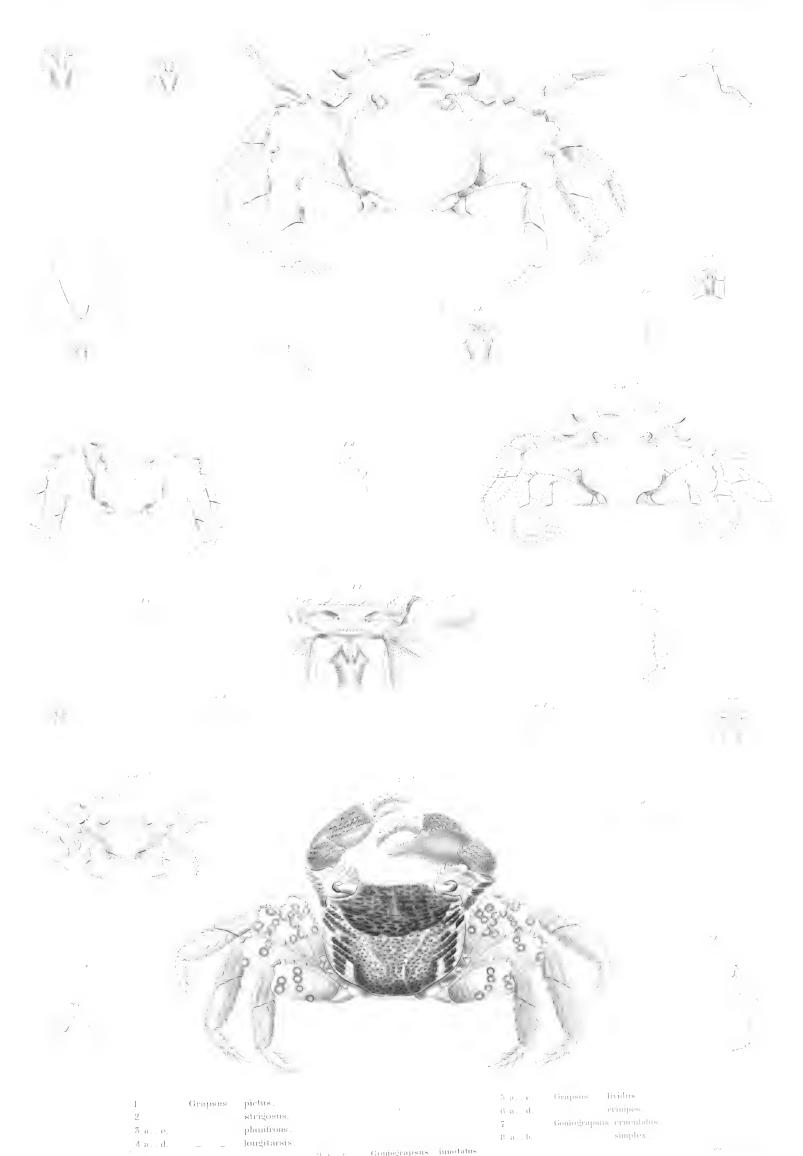




1 a.e. Ocypoda pallidula.
2. lavis.
5 a.b. hrevicornis. _ var? longicornuta.

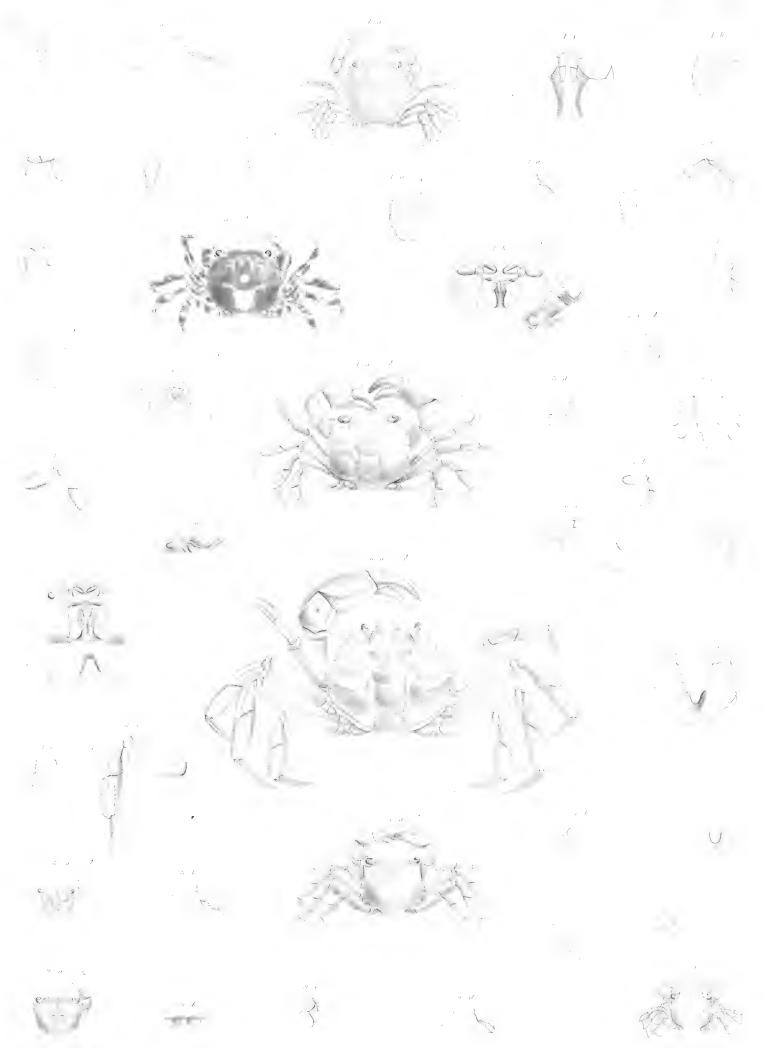
5 a.e. Ocypoda I (villu 6 a.h. Pseudograpsus oregonensis 7 a.e. nudus 8 a.h. Trichopus litteratus





9 a. e Goniograpsus innotatus





1	21	i	Planes	evaneus.

-				
2	а.	(.	Hemigrapsus	sexdentatu
5	a	d.		crenulatus

 ⁵ a. . d.
 erennaus.

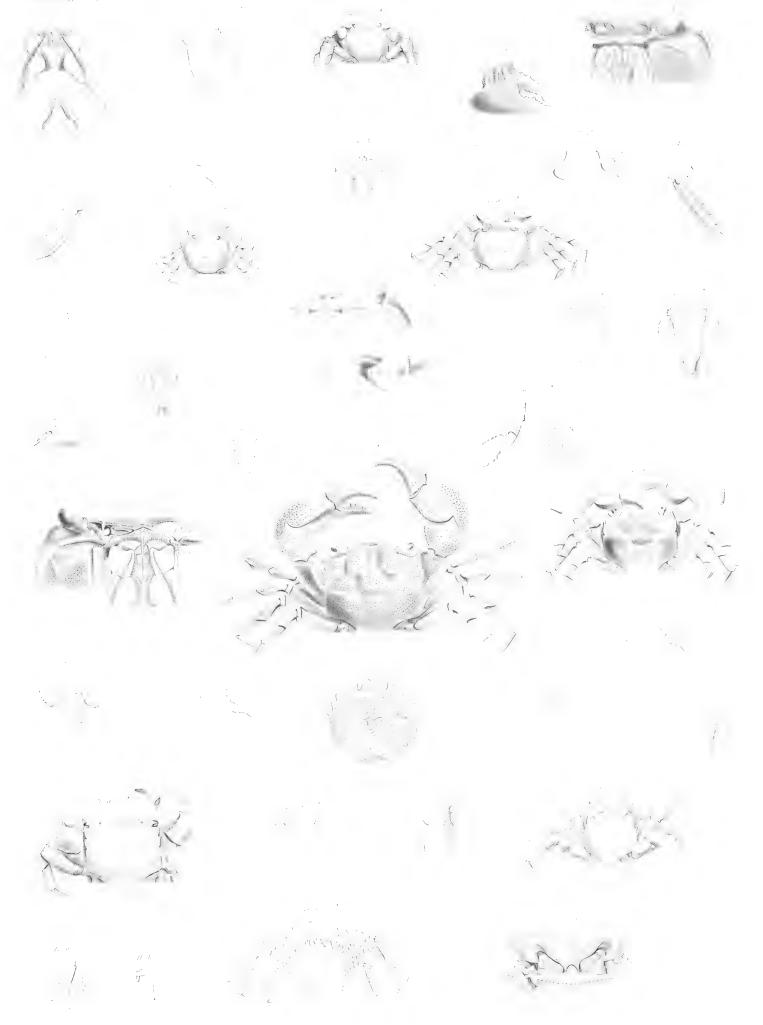
 4 a. d.
 crassinanus.

 5 a. e.
 affinis.

6 a.e. Cyrtograpsus angulatus

7	ас.	Sesarma	angustipes.
8	ае.		trapezium.
()	ad.		obtusifrons
10	a., c.		obesum

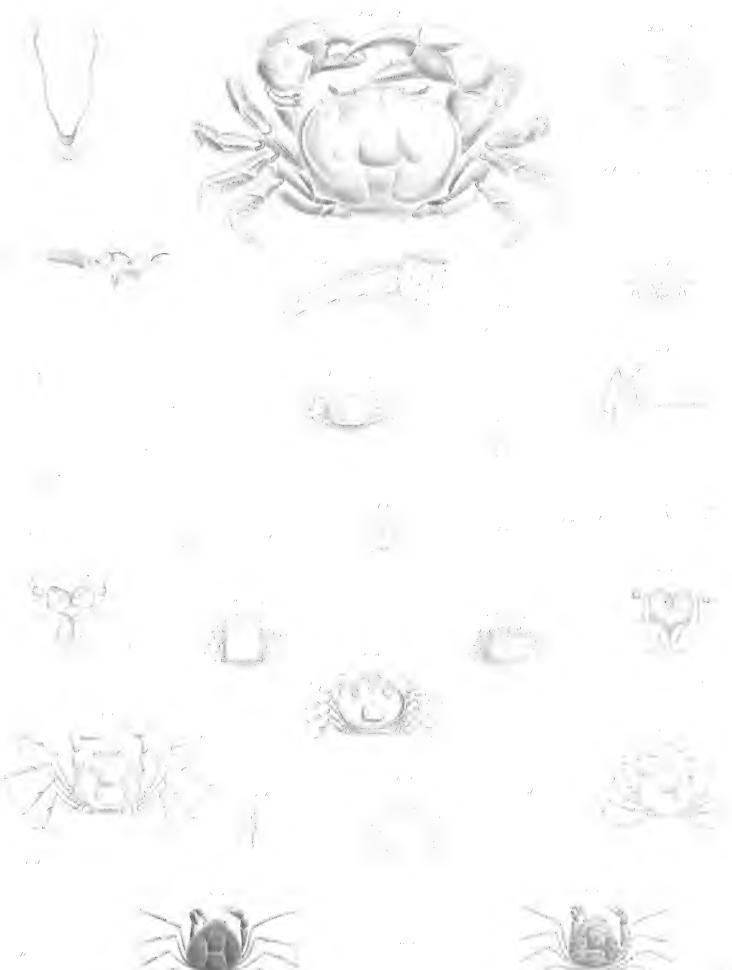




1 a d .	Sarmatium	erassum
	Cvelograpsus	Audouinii .
		cincreus.
1 a . e		granulatus.
	(the amount of his	subquadratus.

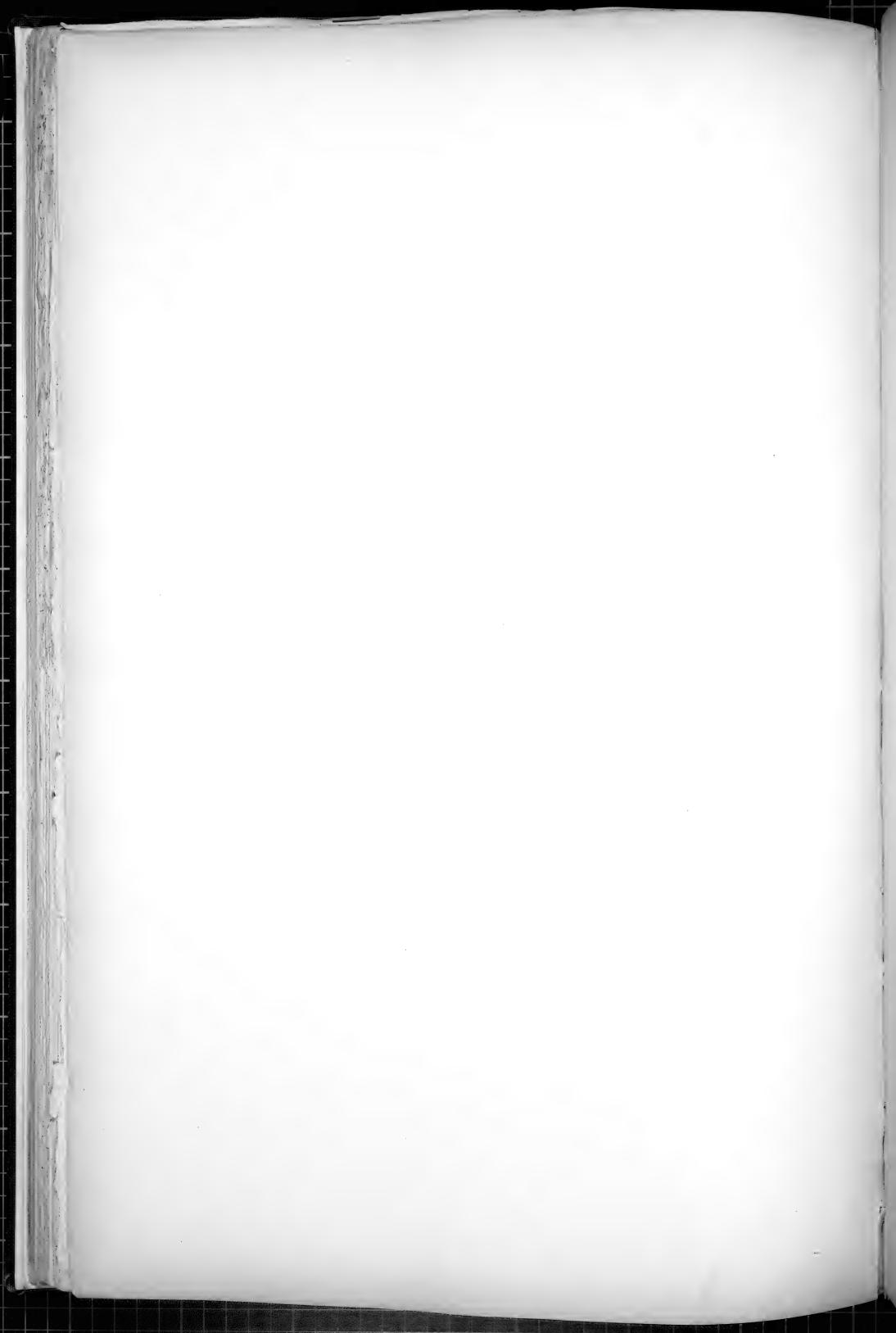
			iathus	
7 :	a A.d.			Inevis
8	a d .	Helice	crassa.	
9.		Plagusia	specie	osa.
10	a d .		glabra	

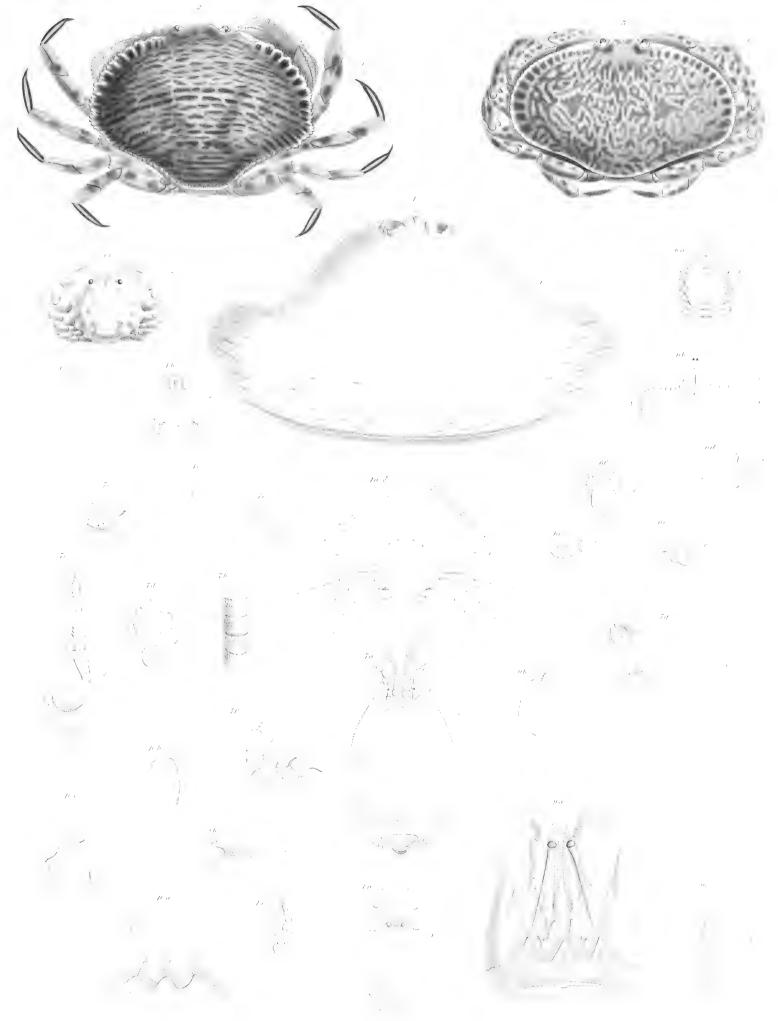




			Cardisoma	obesum.
	ä	el		hirtipes.
5)	a	1	Pinnothera	obesa.
:	21			fab a
	11	()	Fabia sub	quadrata.

6 a b Kanthasia murgera.
7 a b Halicarcinus planatus.
8 pubescens.
9 a d. 10. Hymenicus varius.
R a c pubescens.





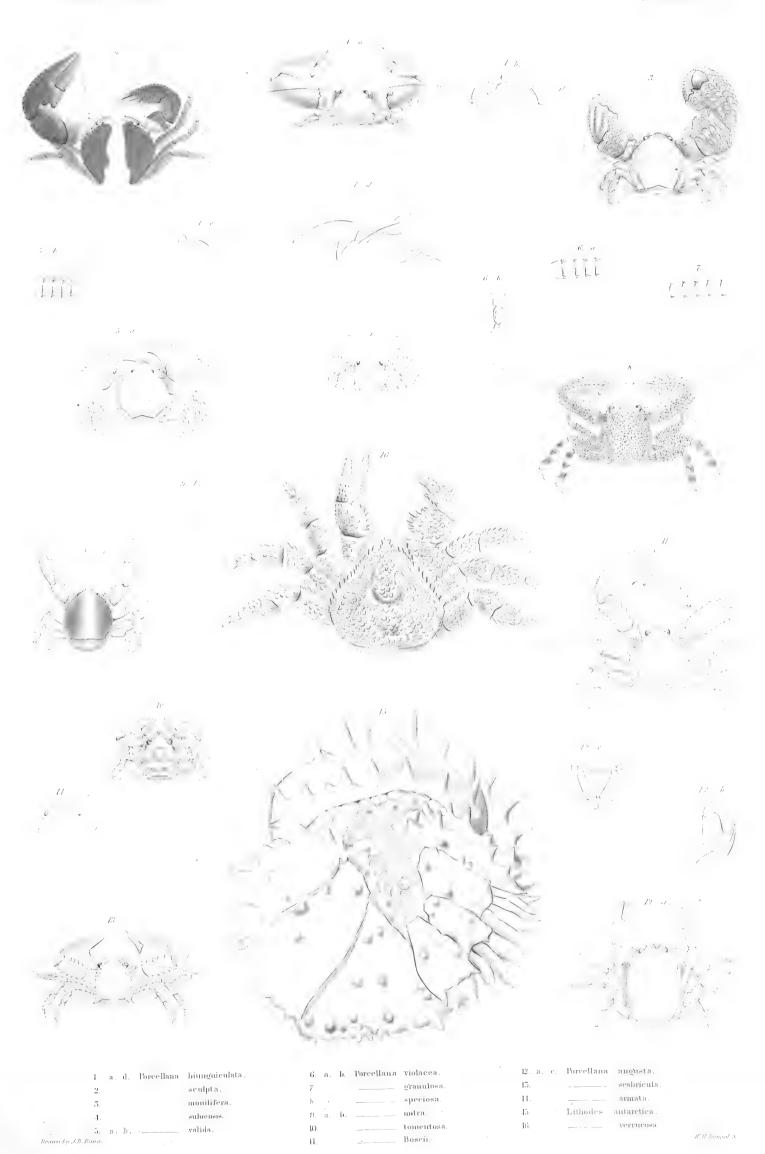
Calappa fornicata.
 Hepatus angustatus.
 Hepatus chilensis.
 a...c. lphis longipes.
 a. b. Nucia speciosa.

6 a...f.
7 a...g.
8 a...e.
9 a...e.
10 a...e. Albunwa speciosa. Remipes pacificus. hirtipes. Hippa emerita. talpoides.



____ verrucosa

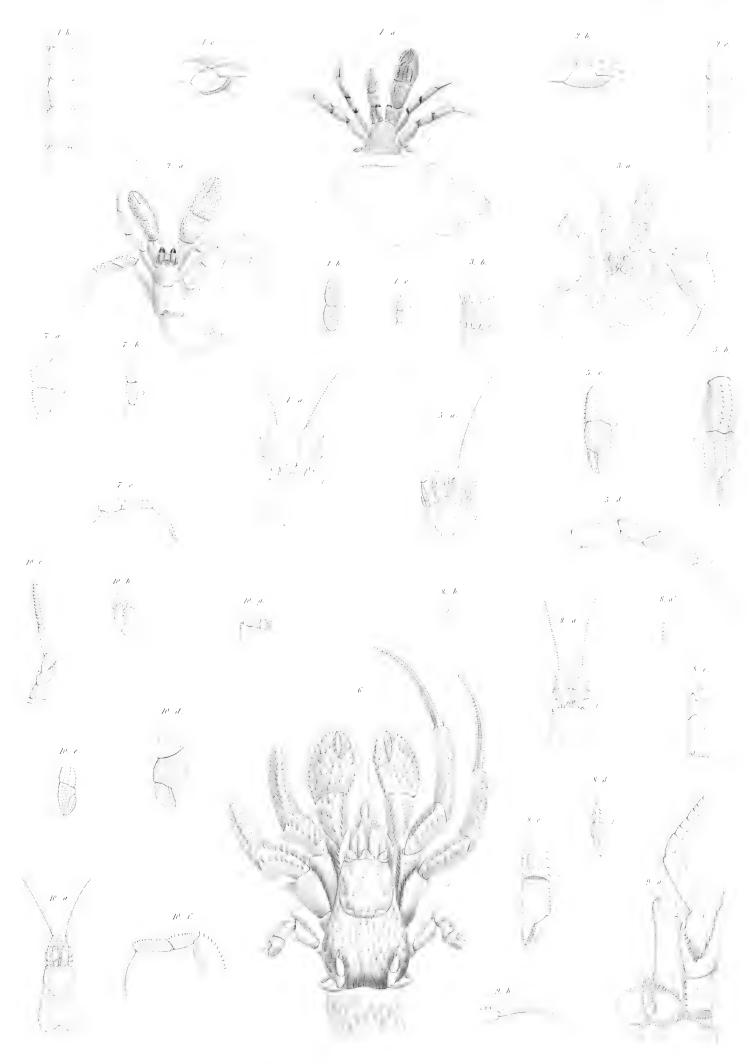
H. H Dougal S.



suluensis.

5. a. b.



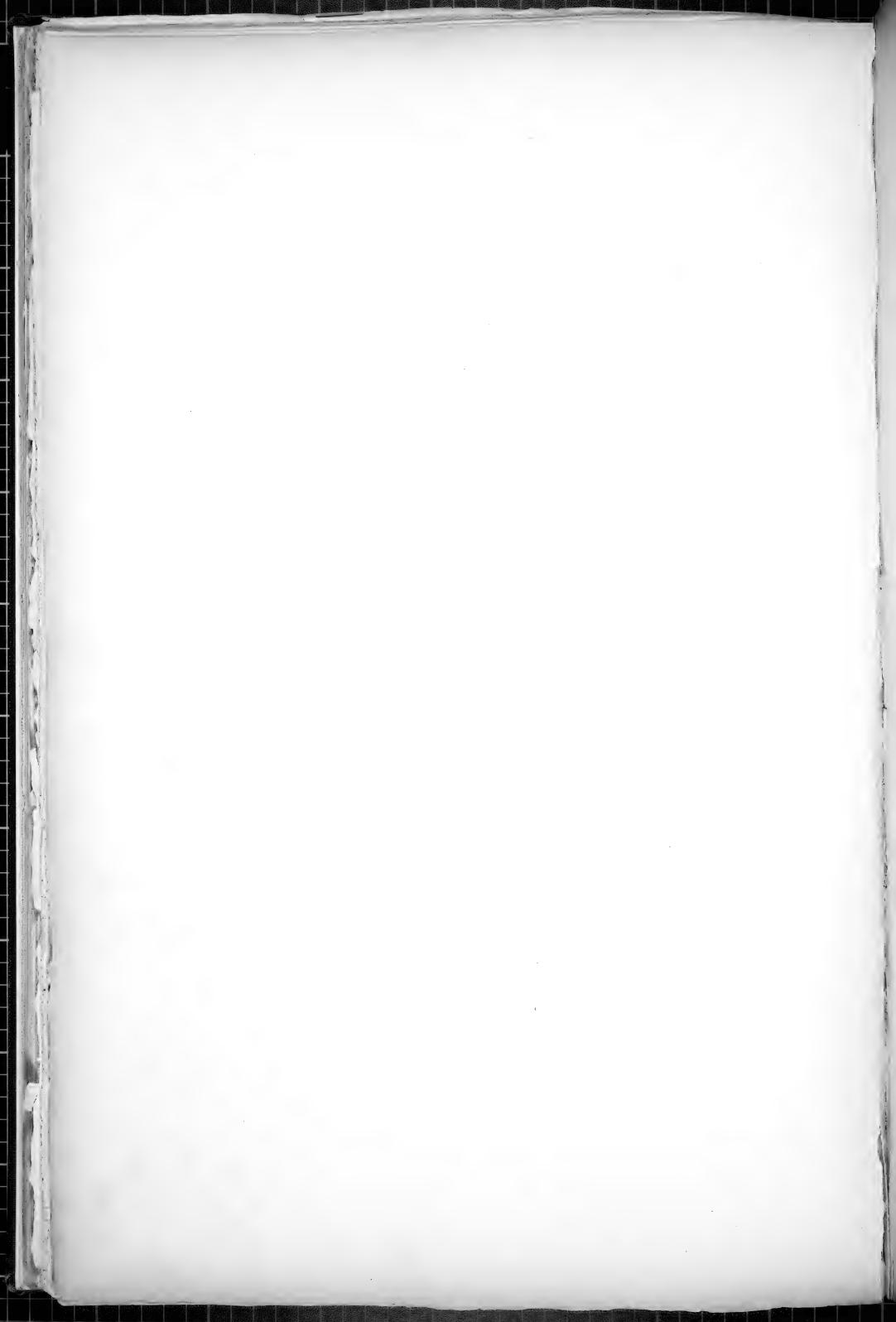


1		a.,e., Bernhardus	novi-zealandiæ
2	2	a e	annatus.
:	7	a b	hirsutiusculus.
	ı	a . e	scabriculus.

	1	ae	scabriculus.
twann by J. D. Dana	.)	a. d	obesocarpus.

6 Bernhardus acquimanus.
7 a c. tenumanus.
8 a c. criniticornis.
9 a. b. Diogenes miles.
10 a. gʻ custos

W II Dougal Se



 1
 a.
 b.
 Paguristes longicostris.

 2
 a.
 f.
 hirtus

 5
 a.
 b.
 Pagurus guttatus.

 4
 a.
 b.
 punetulatus

 5
 a.
 c.
 spinimanus
 hirtus punctulatus.

spinimanus.

6 a... c 7 a. e 8 a. c Pagurus euopsis fabimanus scabrimanus

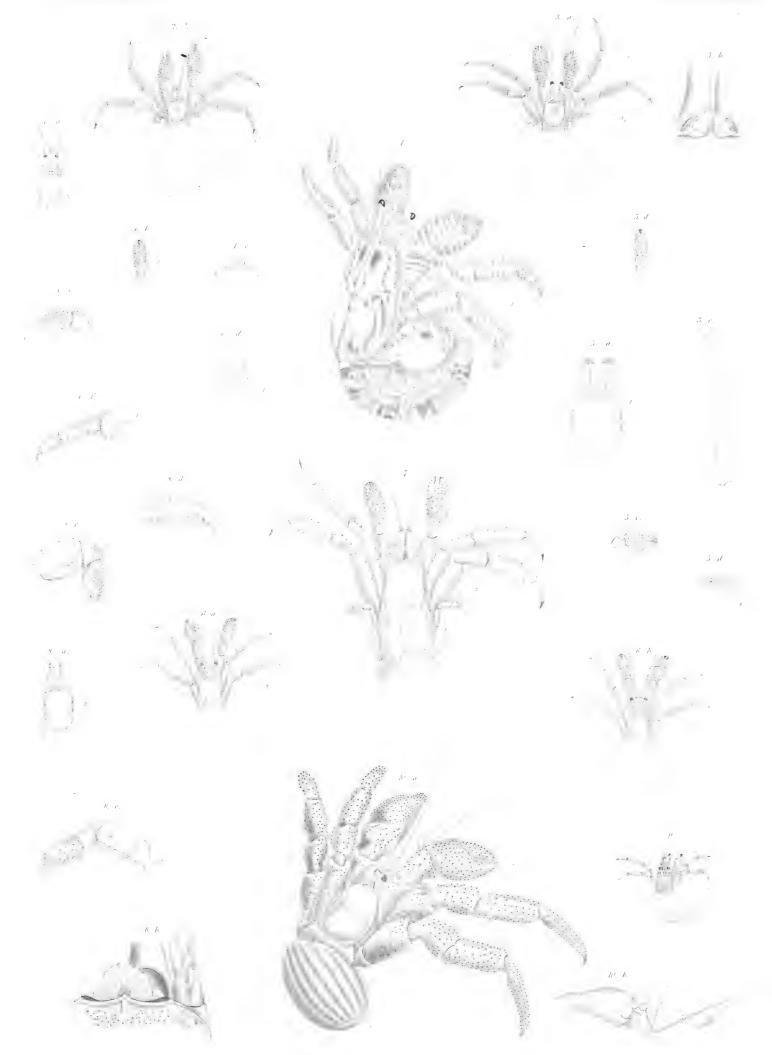
10 a. . e.

Calcinus Gaimardii .

eleģans

Il Calcinus latens.





1	Aniculus typicus.
2	Clibanarius lineatus.
5 ac.	striolatus.
1 af.	æquabilis.

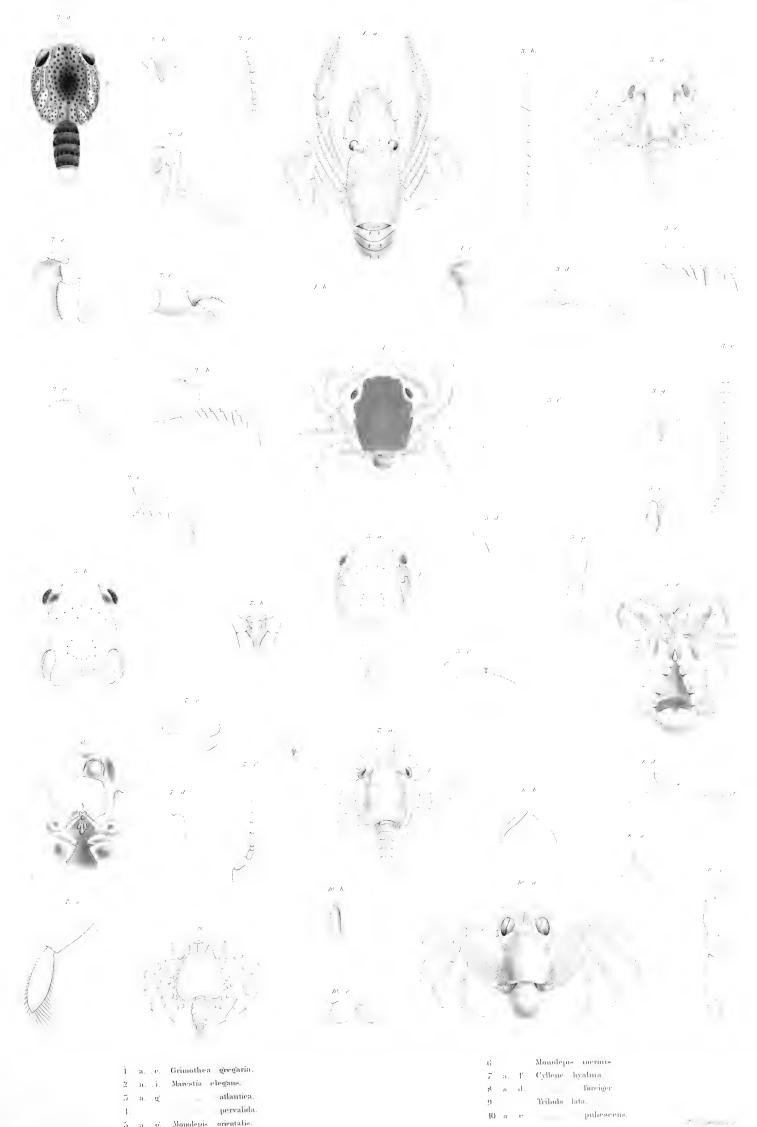
()	a. b.	Clibanarii	is virescens.
7.			brasiliensis
8	ae		corallinus?
9.			humilis
10	a b.	Cenobita	brunnea



1 Cenobita rugosa 5 a b Birgus latro
2 a b var pulchra 6 a f Eglea leves
5 a b carnescens 7 d c Munida sabragosa
1 a b elypeata 8 caladhea latrostris

9 a. c Galathea spinoso rostris
10 a b vitie isis
11 longirostris
12 a b integrirostris





5 a. .g' atlantica. 1. pervalida. 5 a. g. Monolepis orientalis.

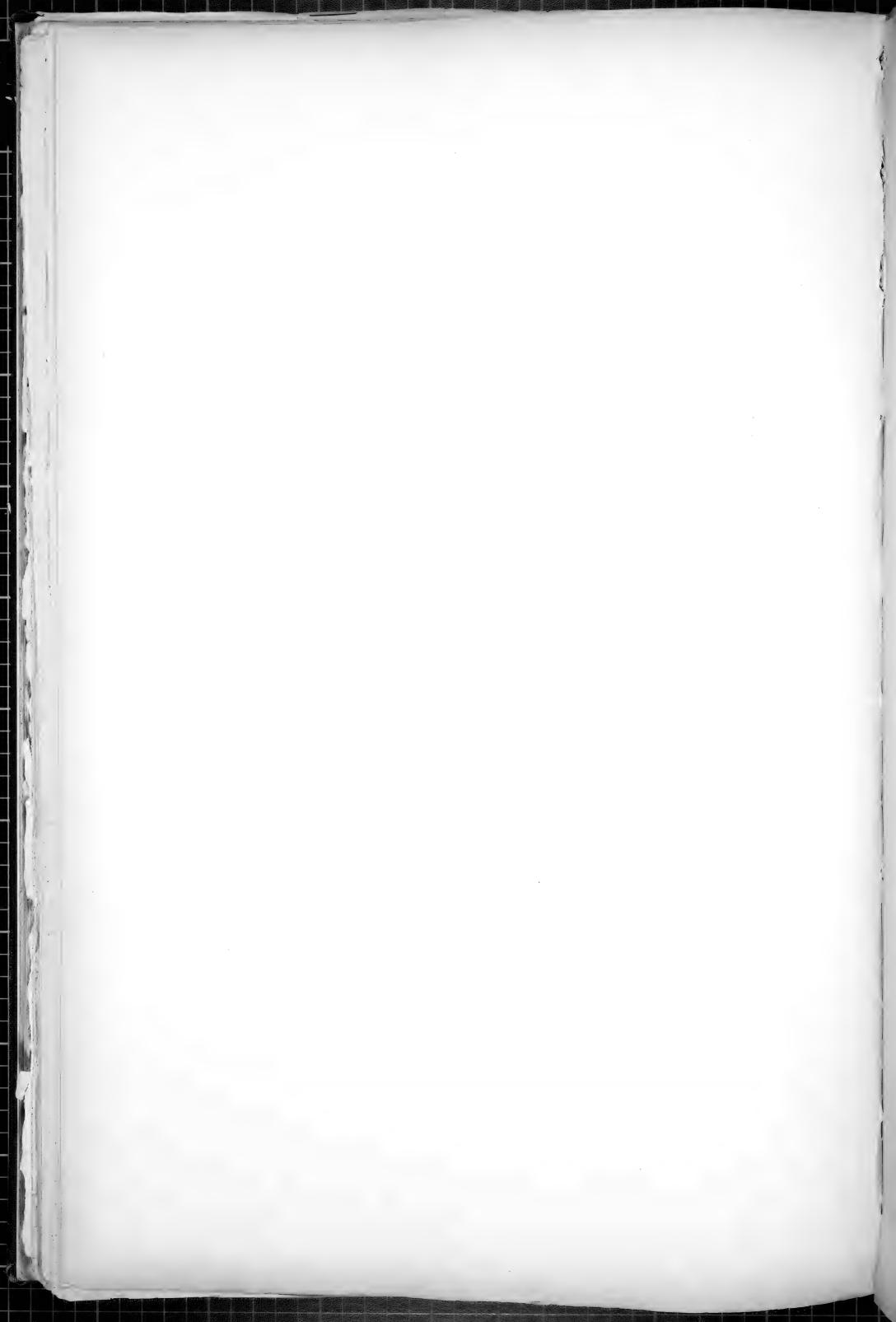


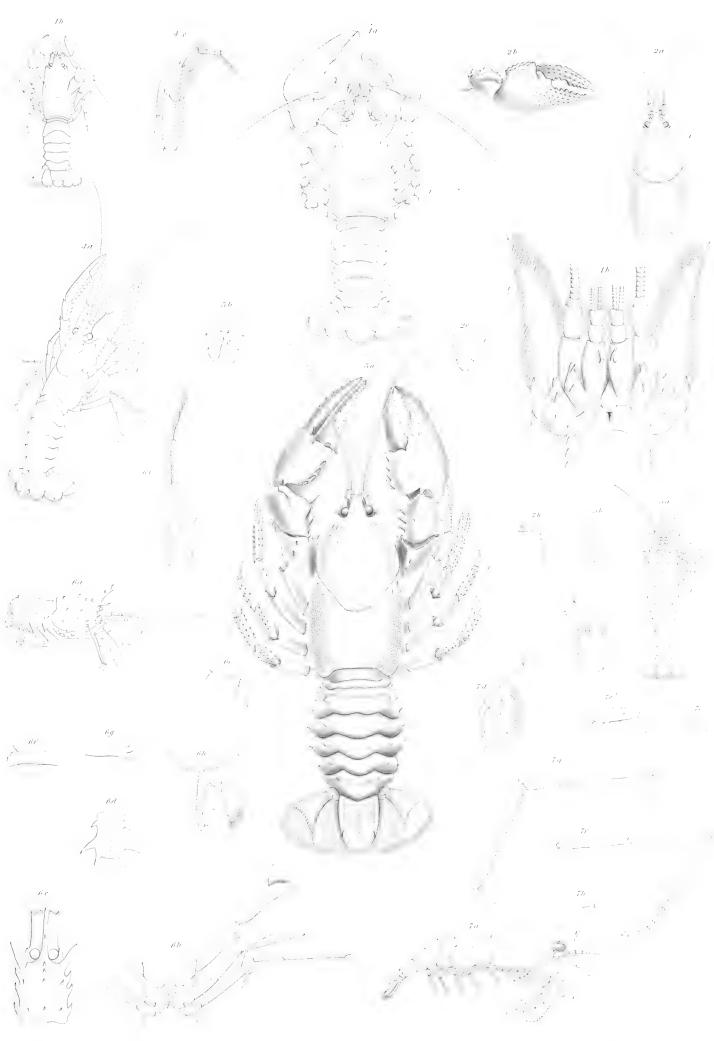


7 a. .g. Aretus vitiensis

4 a. .c. Trypaca australiensis 5 a. .g. Thalassina gracifis

6. Parribacus antarcticus



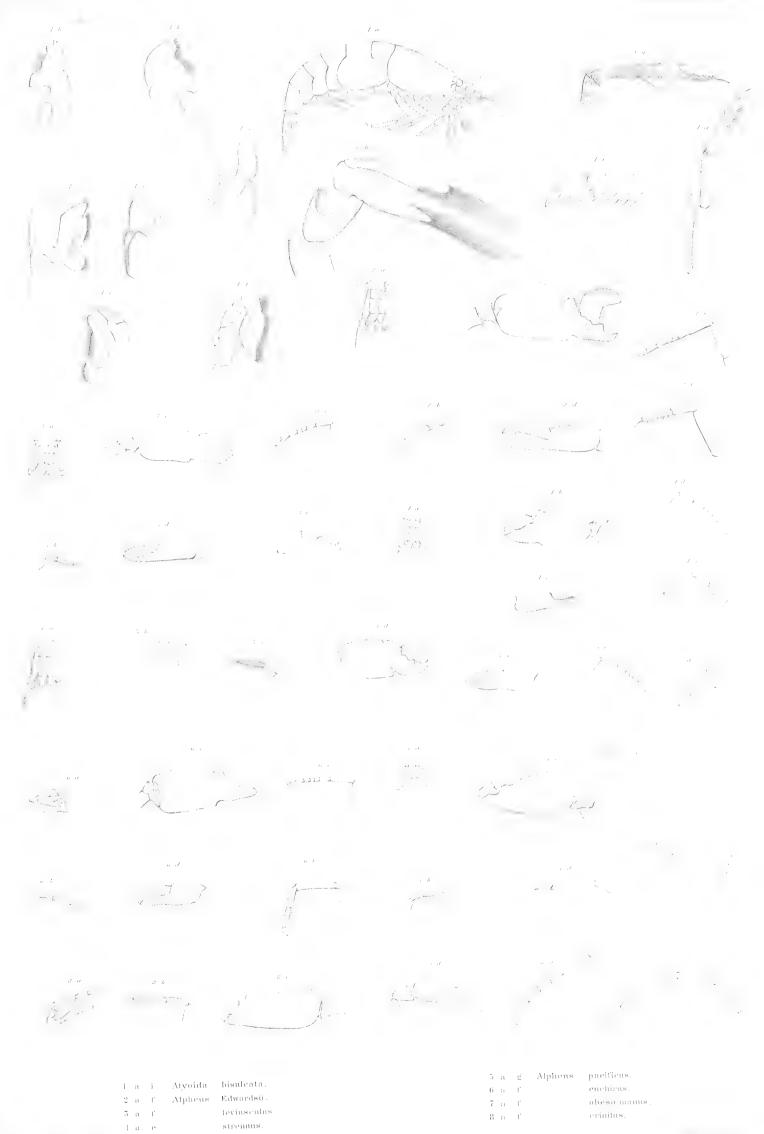


1 a. b. Astacus leniusculus. 2 a. c. Cambarus Bartonii. 5 a. b. Astacoides nobilis.

1 a., c Paranephrops tenucornis, 5 a., b. Crangon munitus, 6 a., i. Paracrangon celinatus

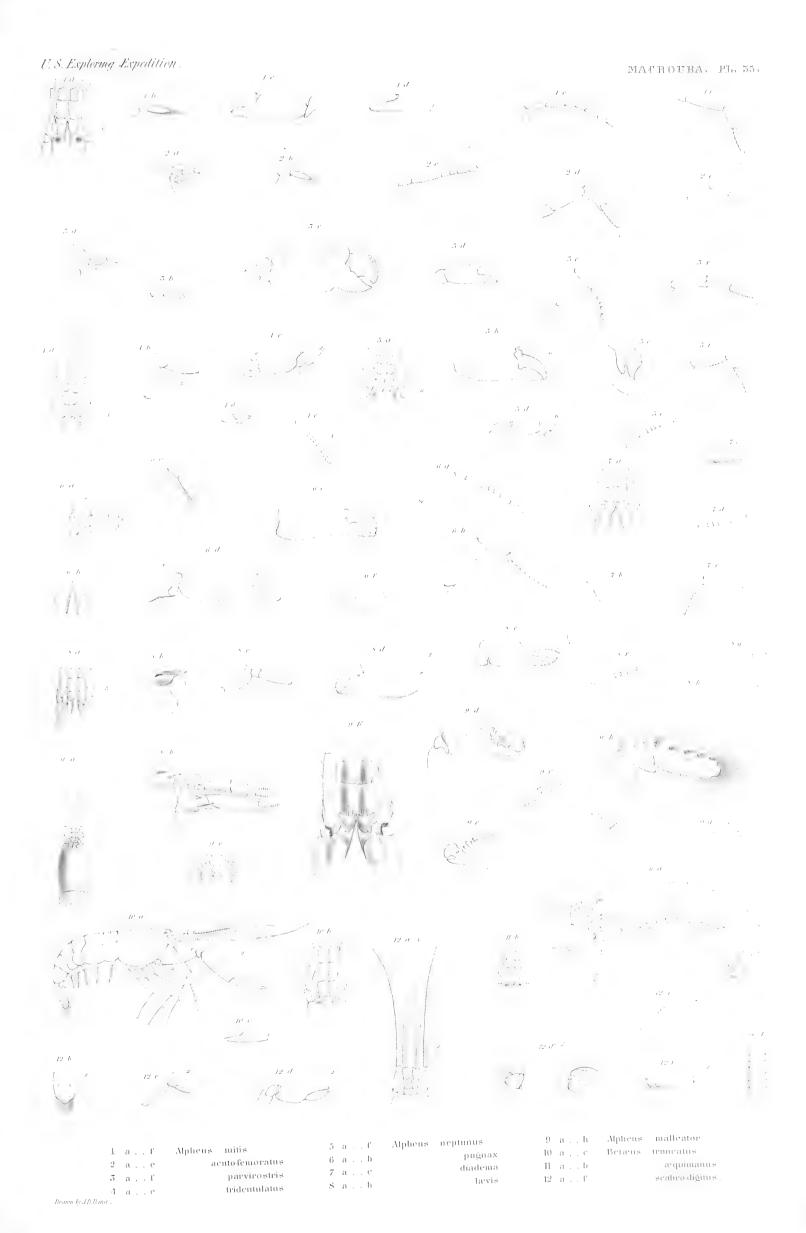
7 a..h. Nika hawaiensis.

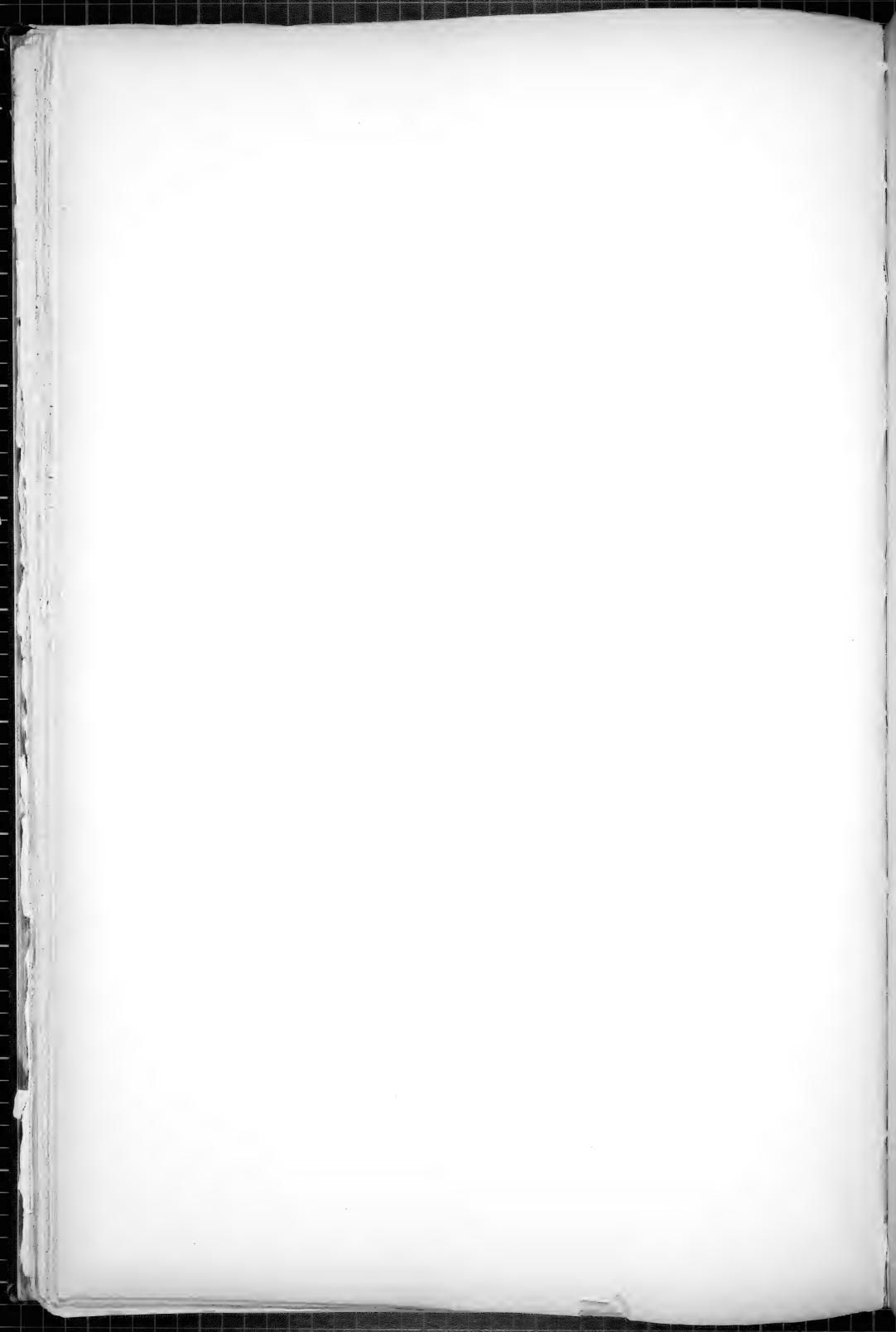




Dirawa to to Sand







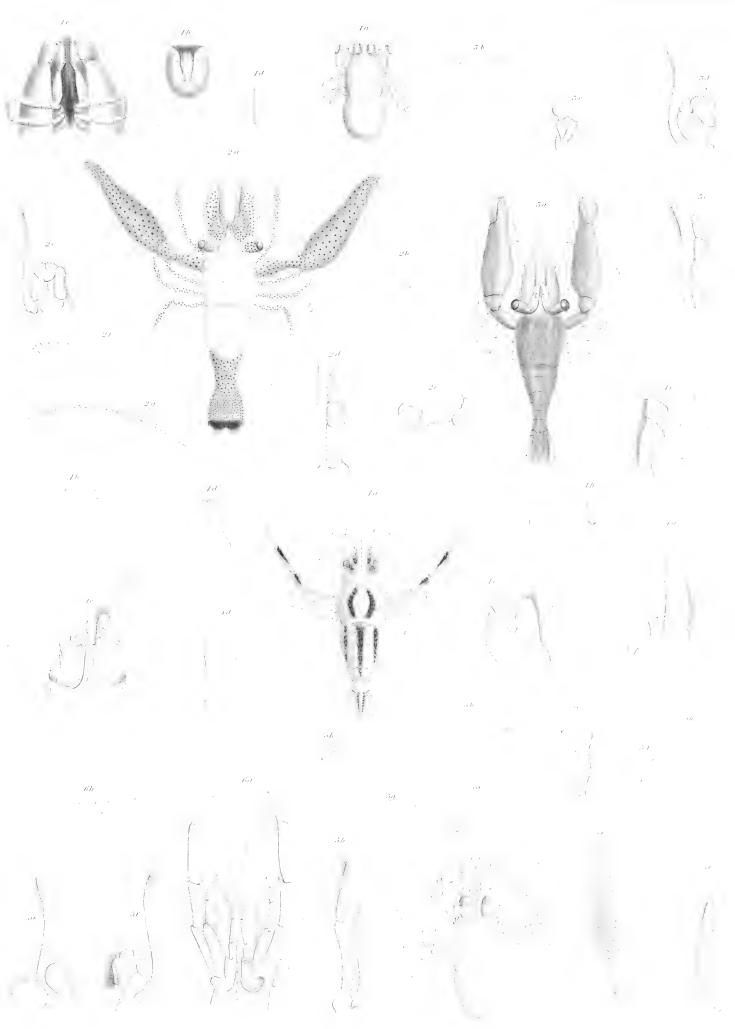


1 a. .e. Hippolyte acuminatus.
2 a. .d exilirostratus
5 a. .f. obliqui-man $_{
m exiliros tratus}$ obliqui-manus

gibbosus. 1 a.e

5. Hippolyte curvinstris
6 a f lamellucous
7 a c Rhyncocinetes typicus
8 landalus melo. Pandalus pubescentulus.





1 a..d. Pontonia Tridacua 2 a..f. Œdipus superbus. 5 a..e ģramineus. 1 a., h Harpilius lutescens 5 a., m Anchistia gracilis, 6 a. b longimana.

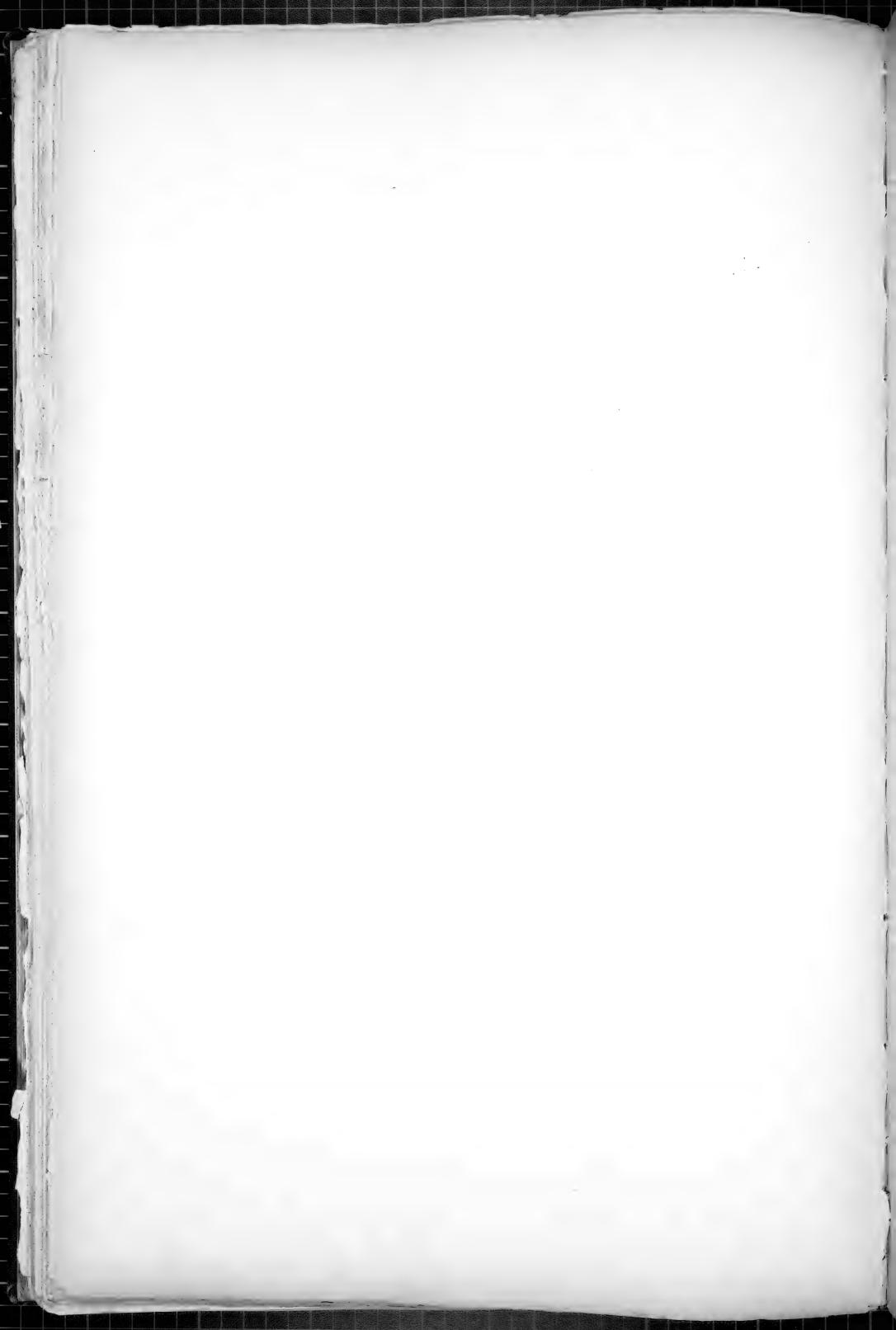
Deaten by AD Inin



()

4 a. .d orientalis

Drawn by J. D. Dana .



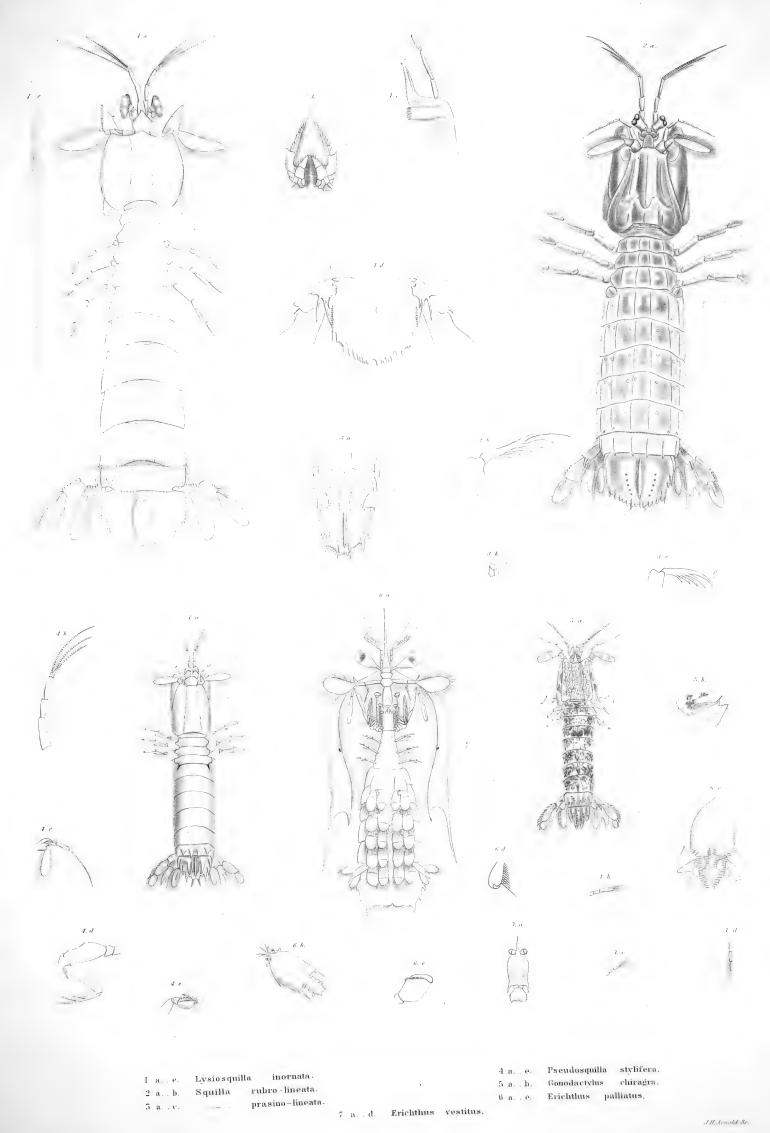


1 a a b. Palæmon acutirostris 2 a b equidens. 5 a . c. Hymenocera picta 1 a h Cryphiops spinuloso manus 5 a q Regulus lucidus 6 a h crinitus

Urawa In Albana







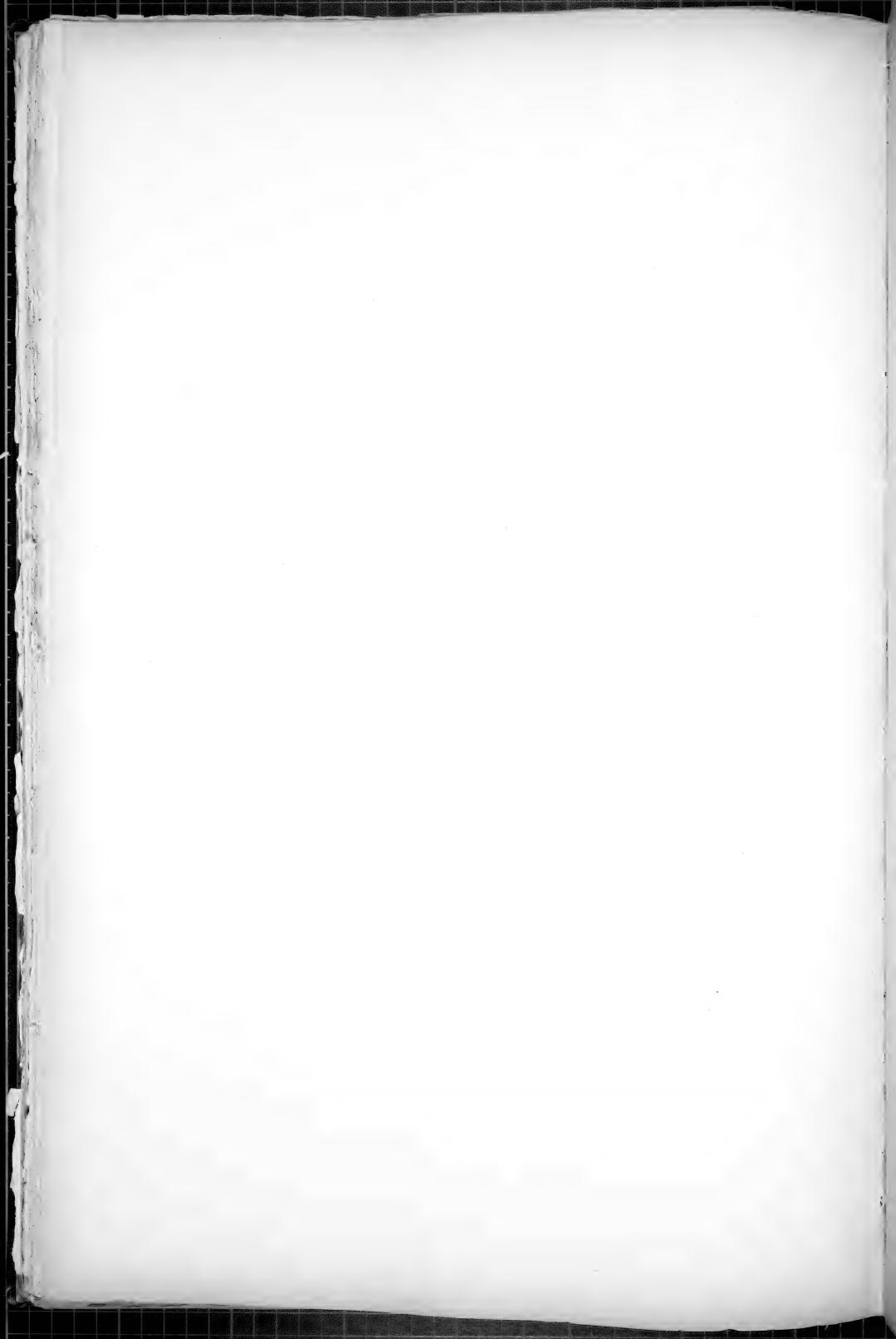
Brawn by J.D.Dana.

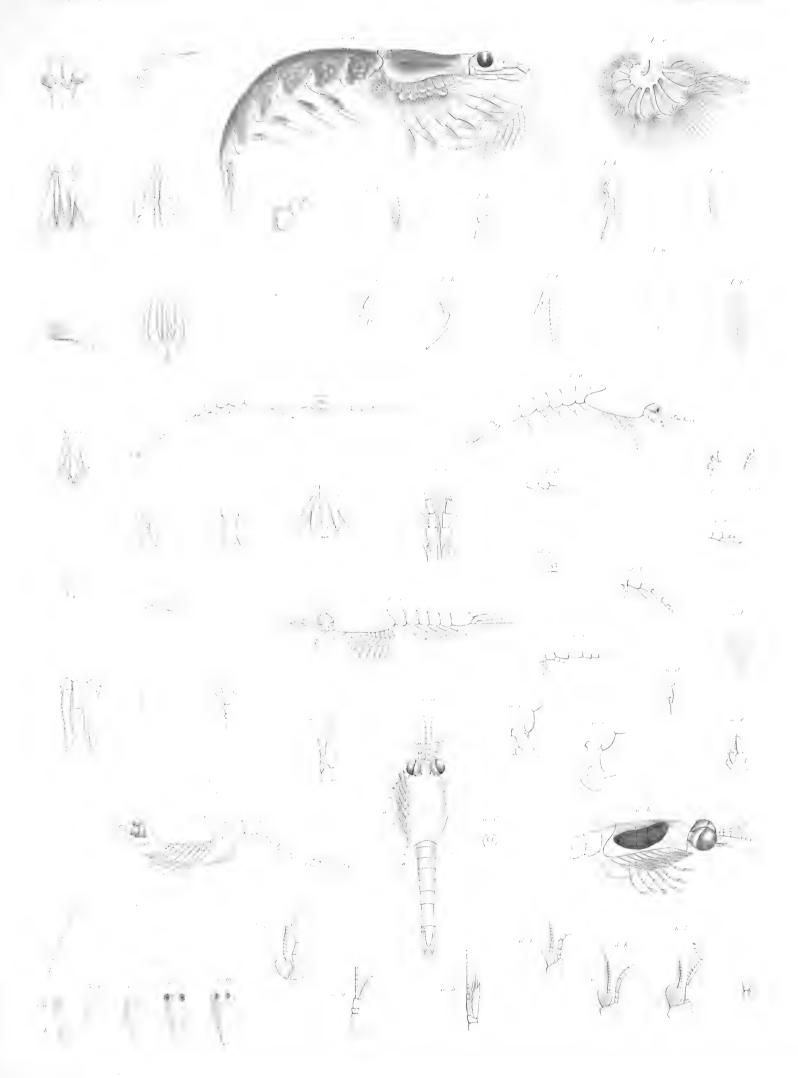




a .c. Erichthus spiniger.
 a .f Alima augusta.
 a .d. Erichthina demissa.

¹ a. .m. Euphausia pellucida. 5 a. .h. splendens 6 a .c. gracilis.



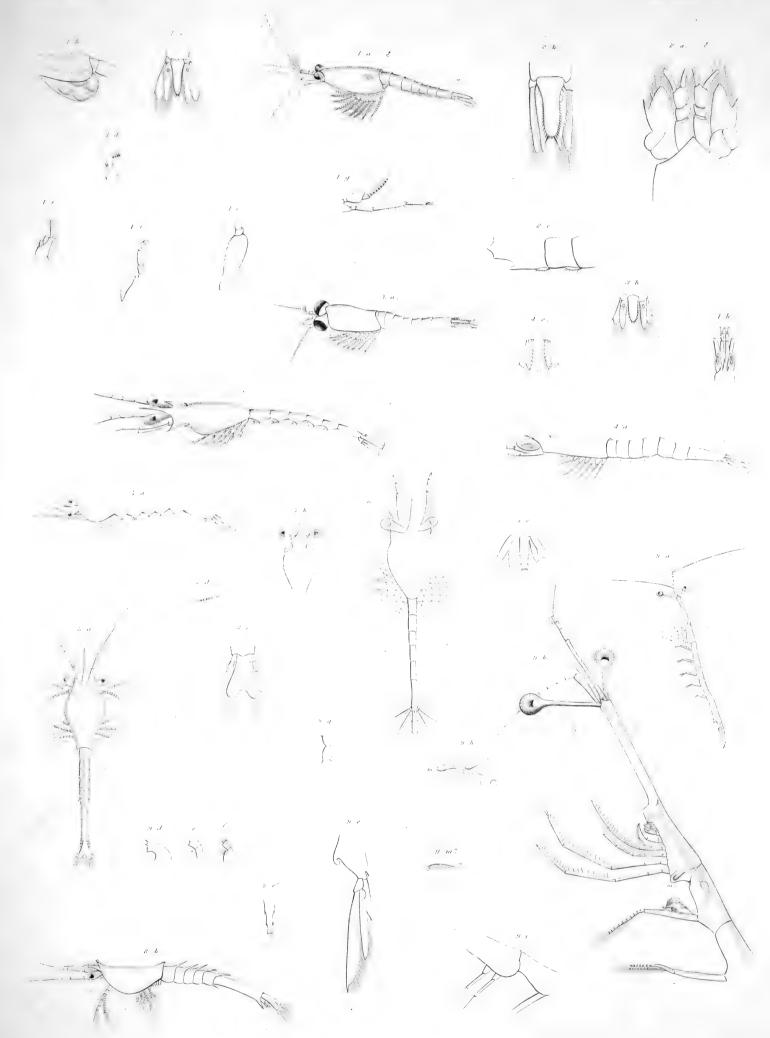


1 a..n. Euphausia superba. 2 a b Cyrtopia rostrata. 5 a l detruncata

4 a.e. Promysis orientalis. 5 a.m. Macromysis gracilis. 6 a..m. Siriella vitrea.

W. ZI Trongal Se





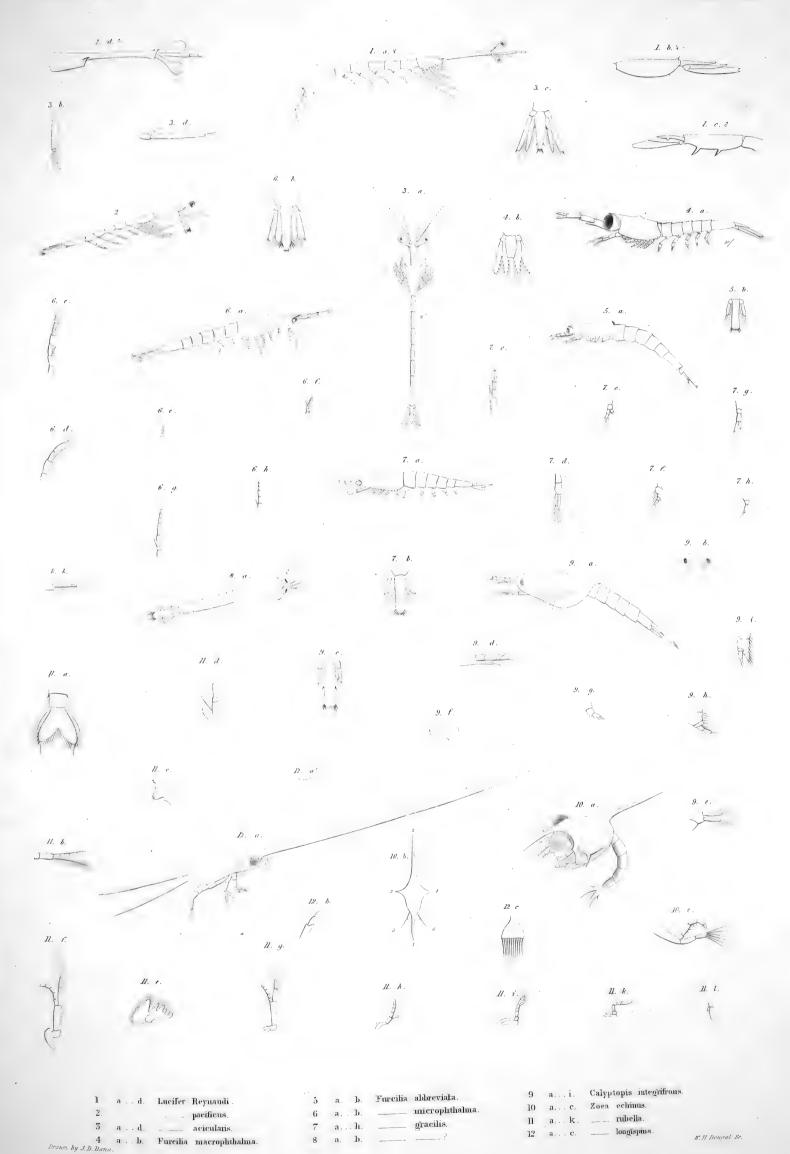
,	a g.	2	a c .	Siriella	gracilis.
	a .b.				brevipes.
4	ac.			Loxopis	tridens.
5.				Sceletina	armata.

6. Sceletina laticeps.
7 a..d. orientalis.
8 a..e. Rachitia spinalis.
9 a..i. Lucifer acestra.

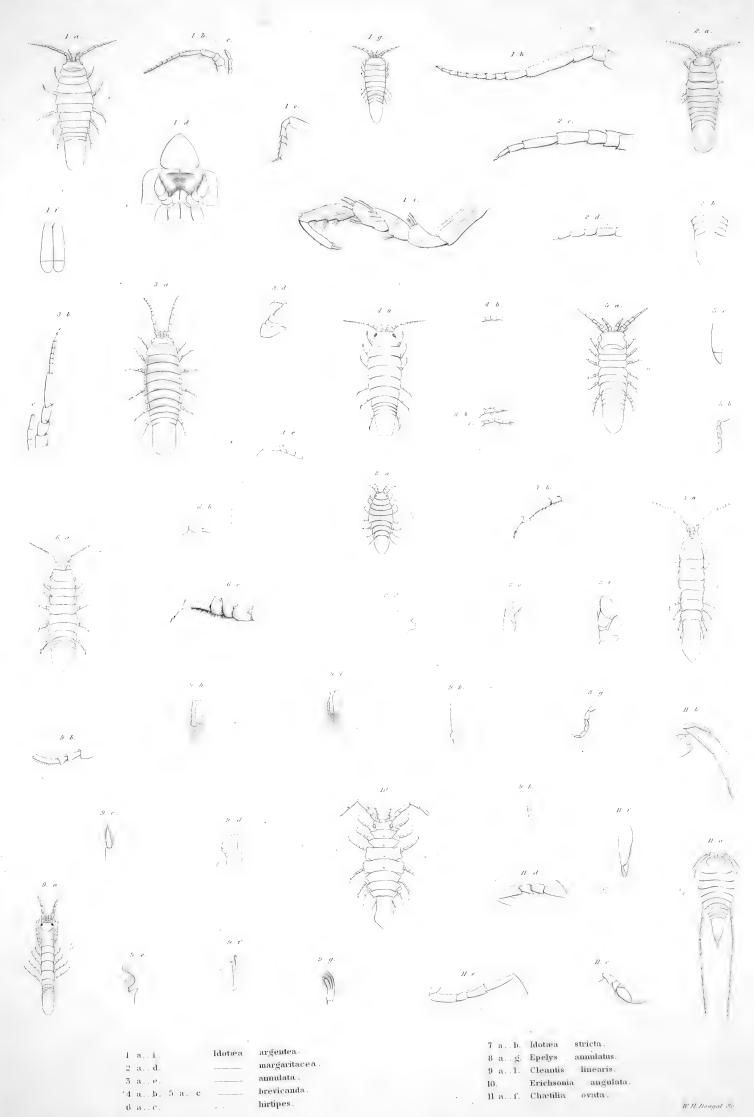
W. H. Dougal Se

Drawn by J.D.Dana.

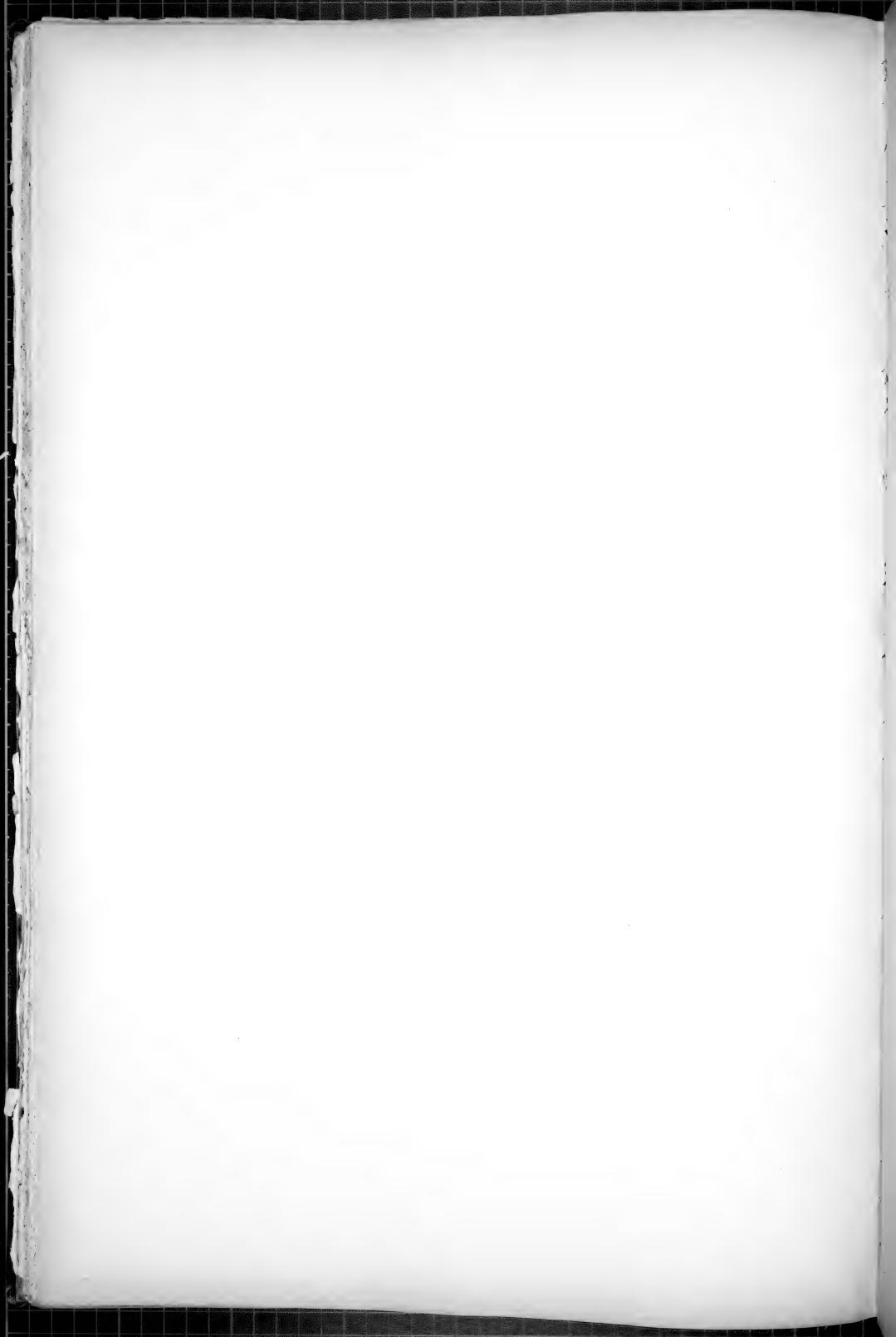


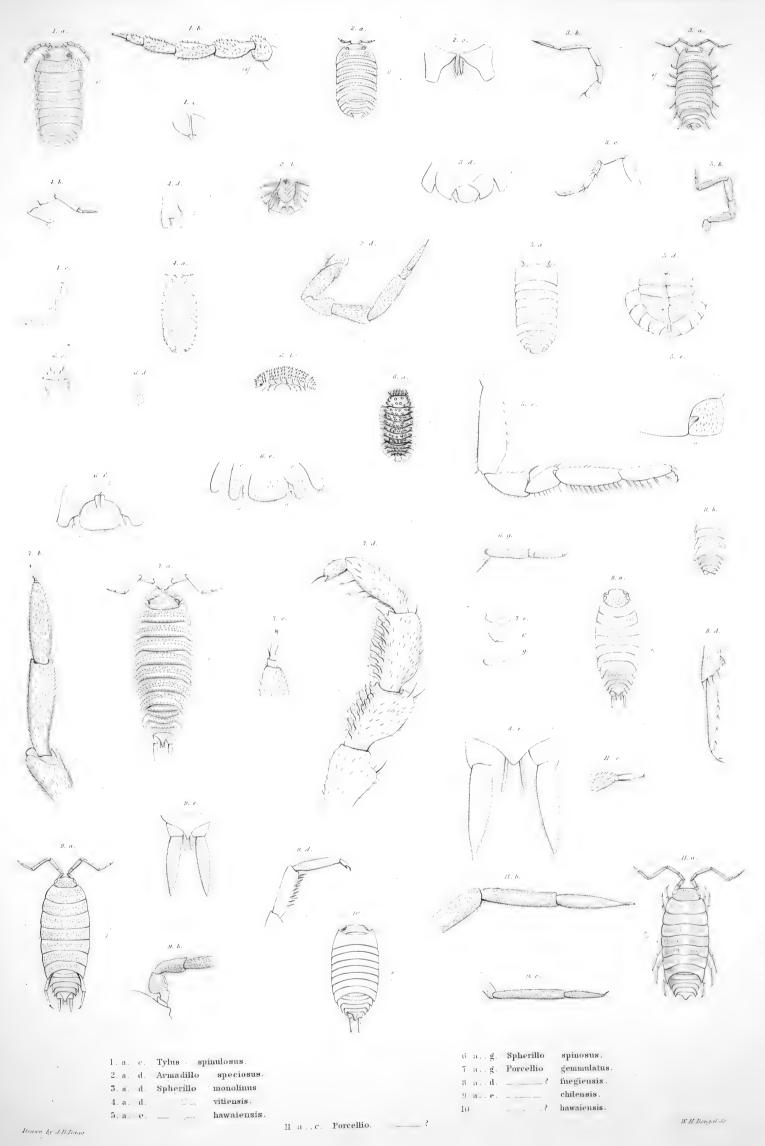




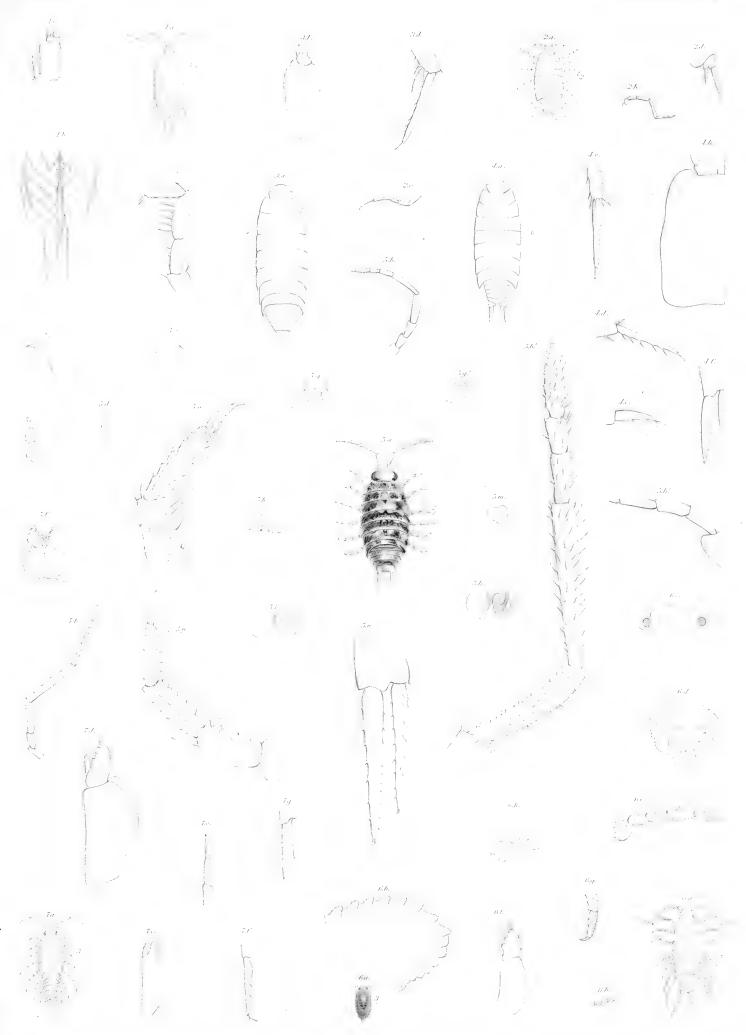


Drawn by J.D.Dana.









1	 41	Oniseus	niérescens.

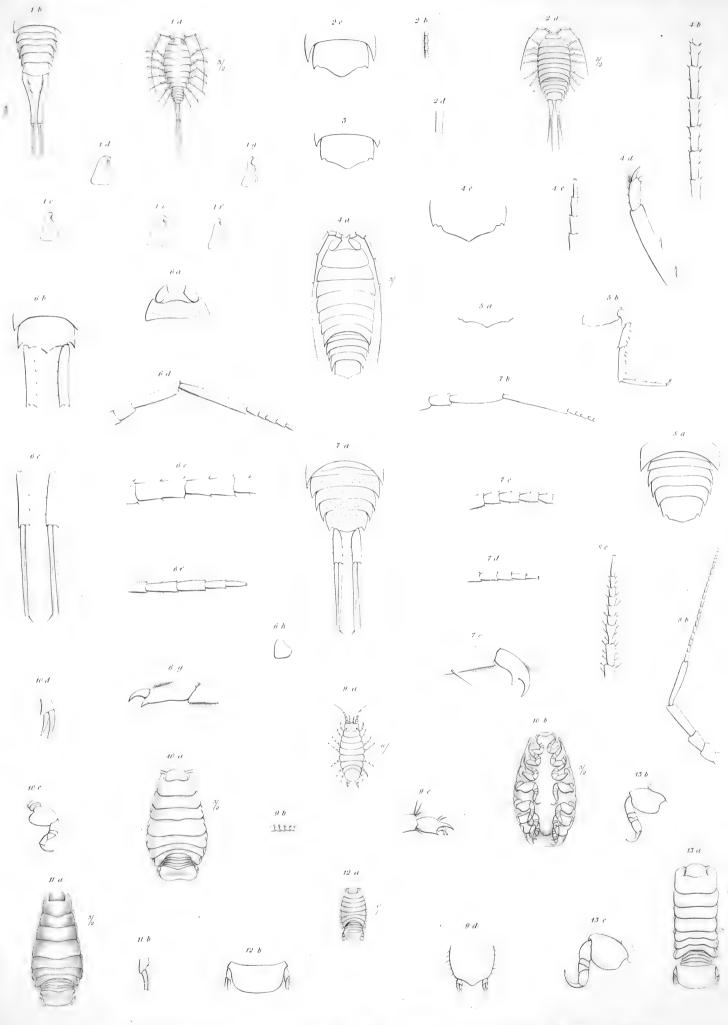
2	ad.	pubescens		
3	ad.	? angustus .		

angustus.

4 a...f. ? maculatus.

5 a...p. Seyphax ornatus.
6 a...h. __young?
7 a...d. Styloniscus magellanicus.
8 a...b. _____ longistylis.





1 a...ģ. Lyģia Ehrenberģii? 2 a..d. novi-zealandiæ. 3. ___australiensis

 Ehrenbergii?
 5 a. b. Lygia vitiensis.

 novi-zealandiæ.
 6 a. h. _____ Gaudichaudii?

 australiensis.
 7 a. e. ____ occidentalis.

 hawaiensis.
 8 a. c. _____ cursor.

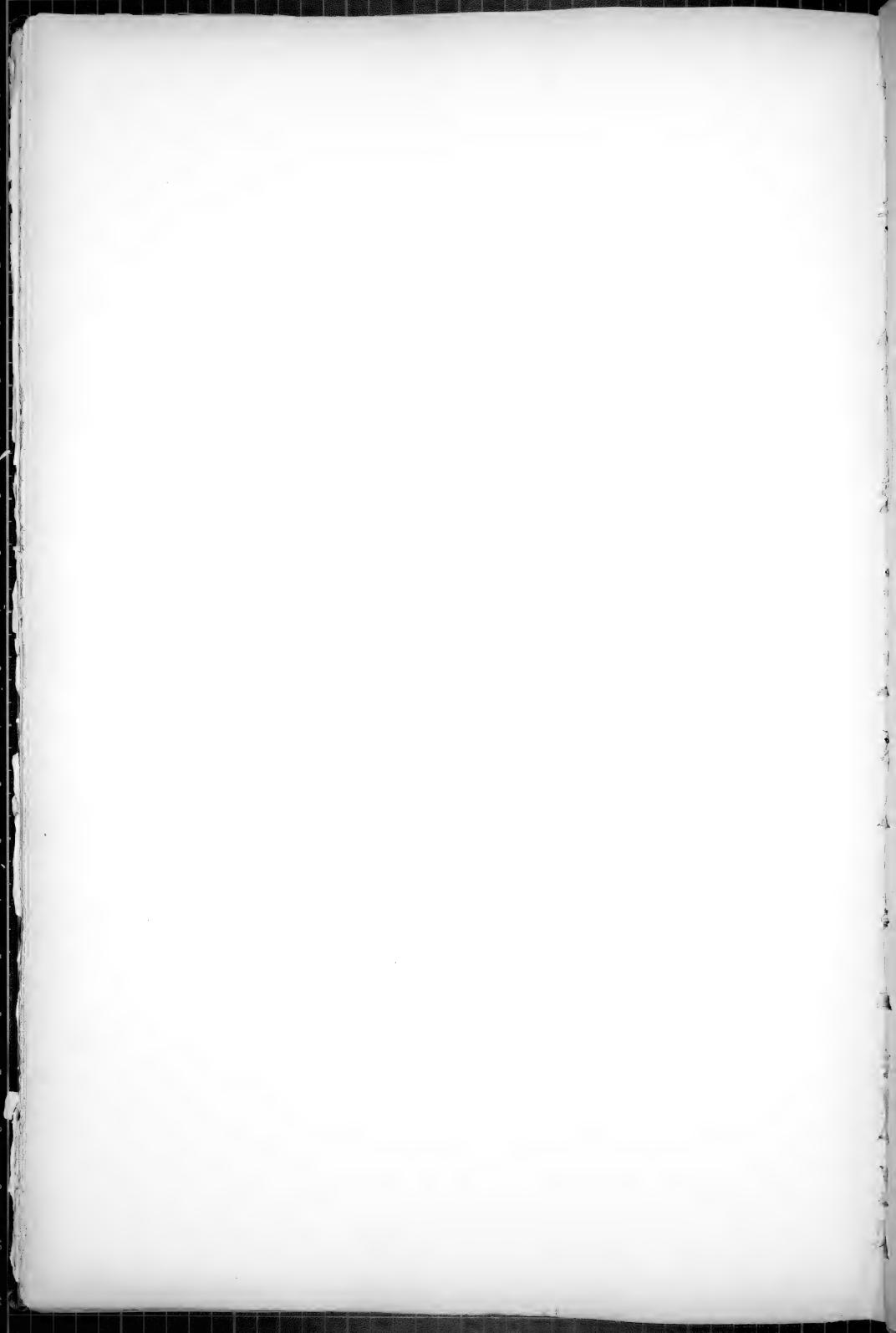
9 a. d. Jæra pubescens.

10 a. d. Ila. b. Cymothoa excisa.

12 a. b. _____ frontalis?

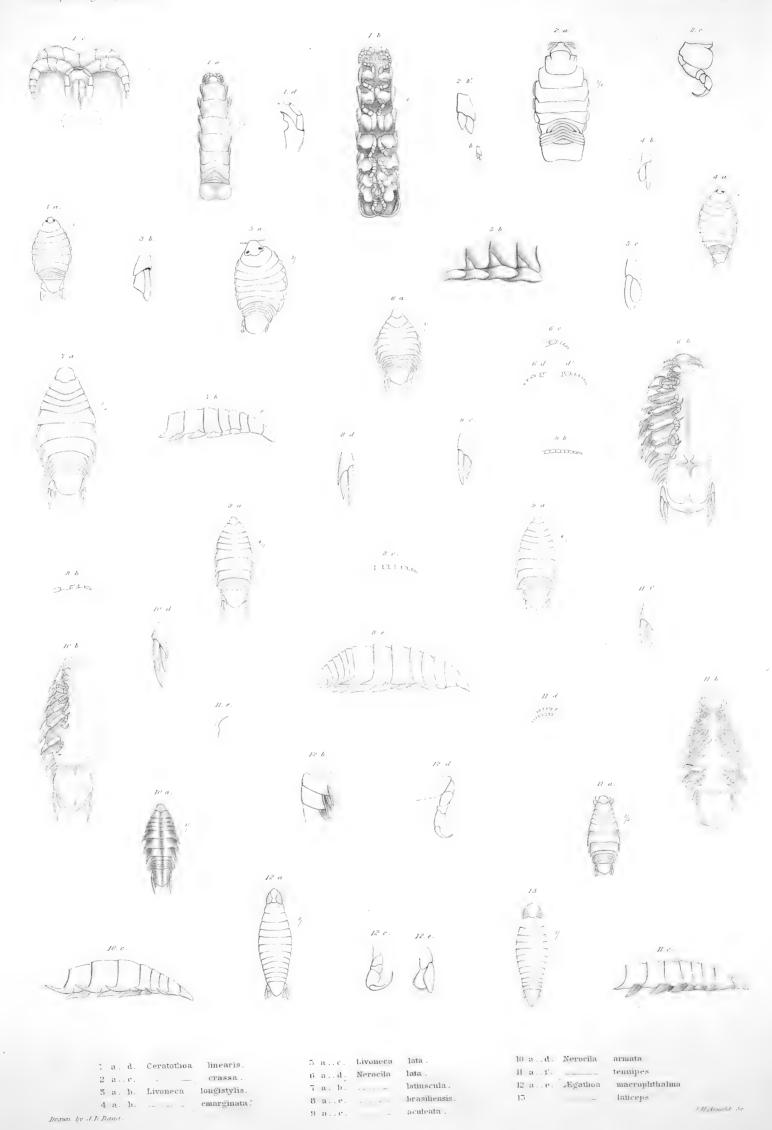
13 a. c. ____ recta.

4 a...e.



4 a. b. ._ emarginata:

Irawn by A.D. Dana.

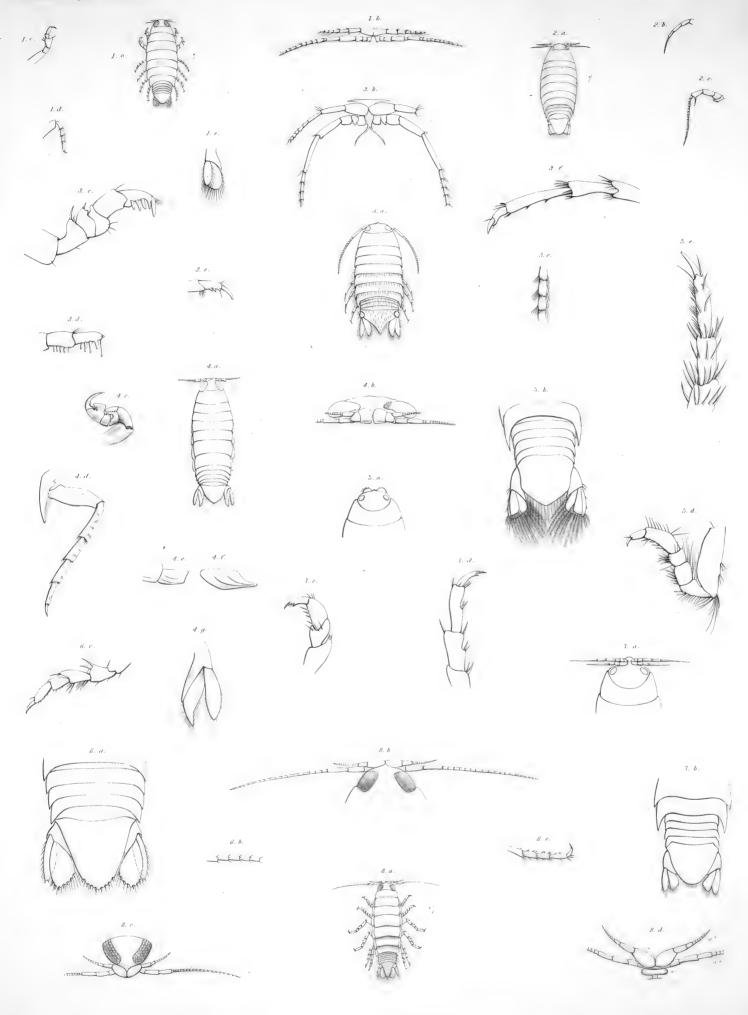


15 –

laticeps

All demold Se





 1 a. e.
 Æga
 efferata.

 2 a. c.
 — novi-zealandiae.

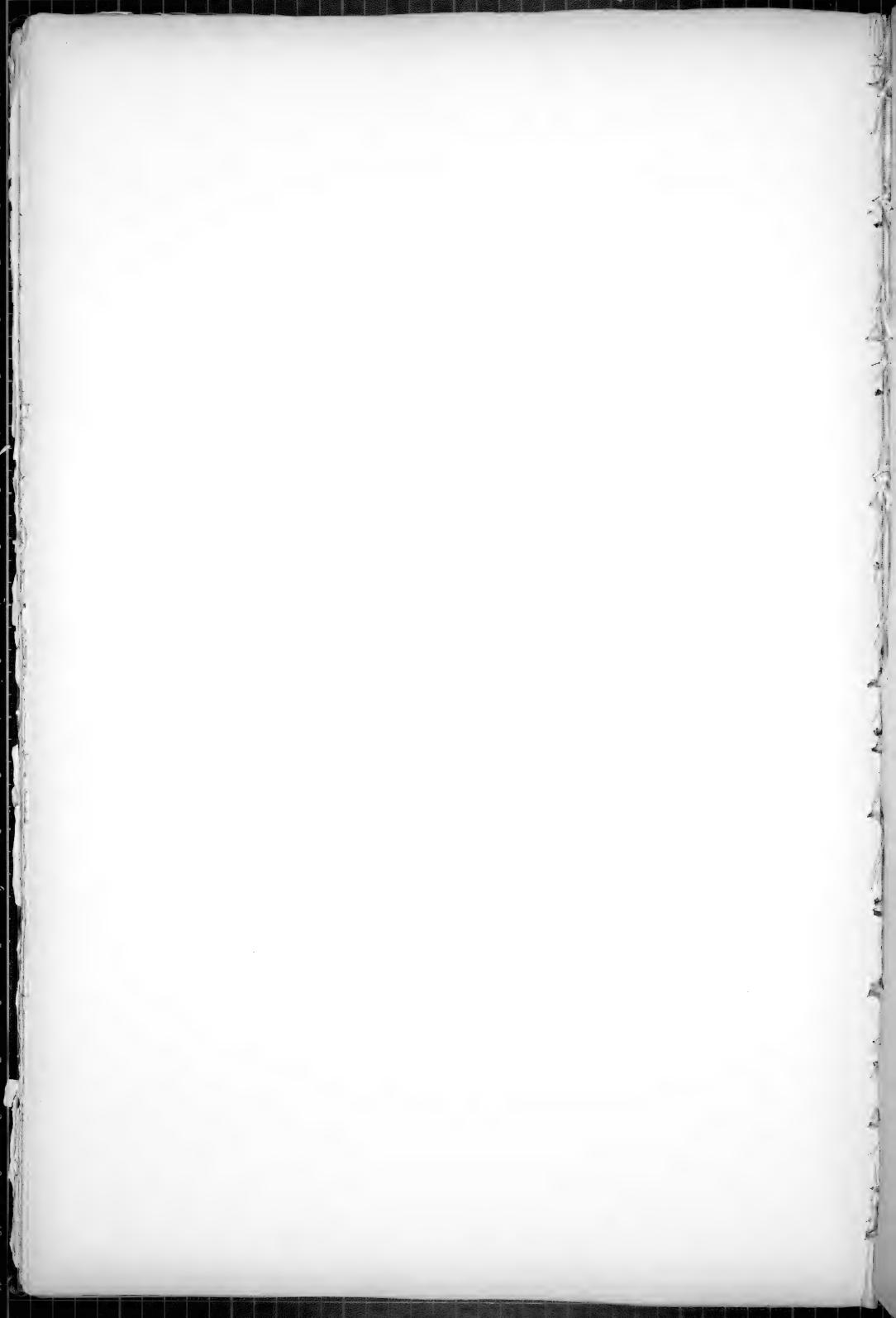
 3 a. f.
 — multi-digita.

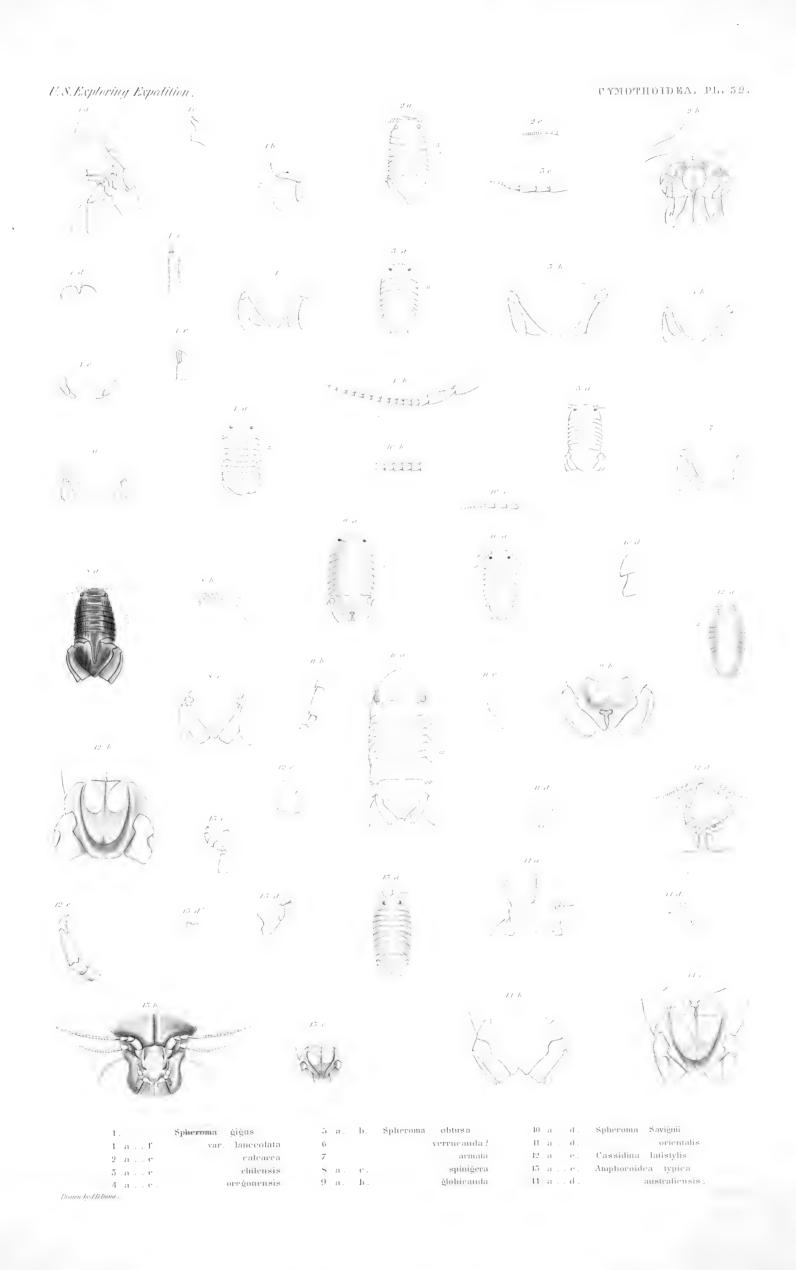
 4 a. g.
 Pterelas
 magnificus.

5 a.e. Cirolana armata.
6 a.e. latistylis.
7 a.d. __ orientalis.
8 a.e. Corallana hirticauda.

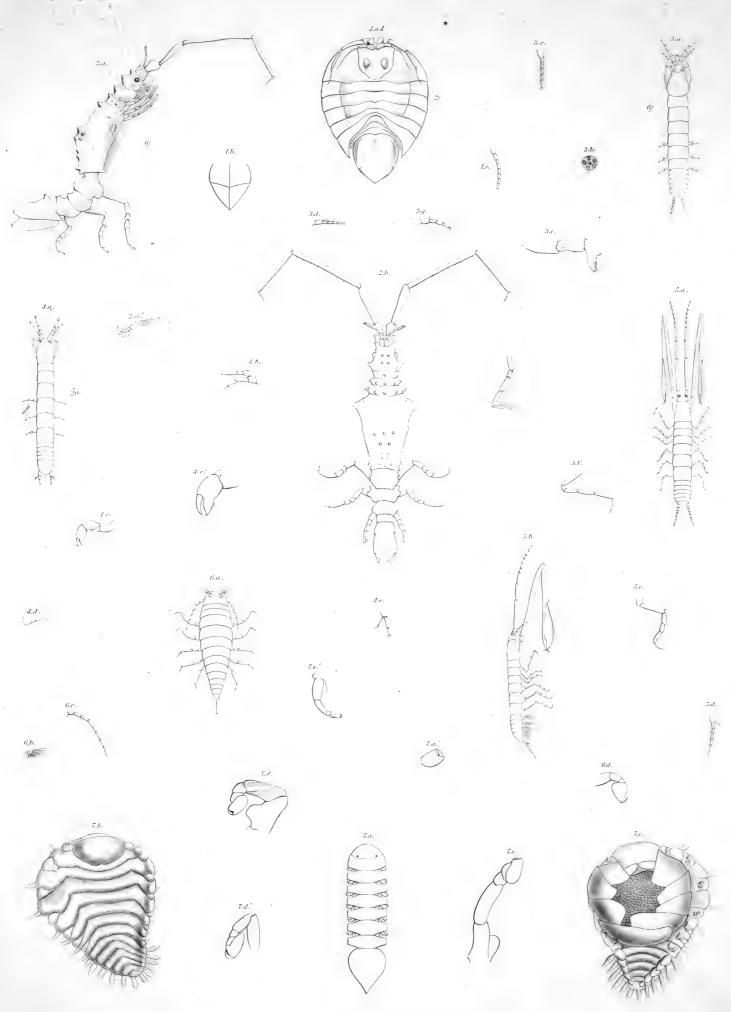
Drawn by J.D.Dana.

W.H.Dougal Sc.









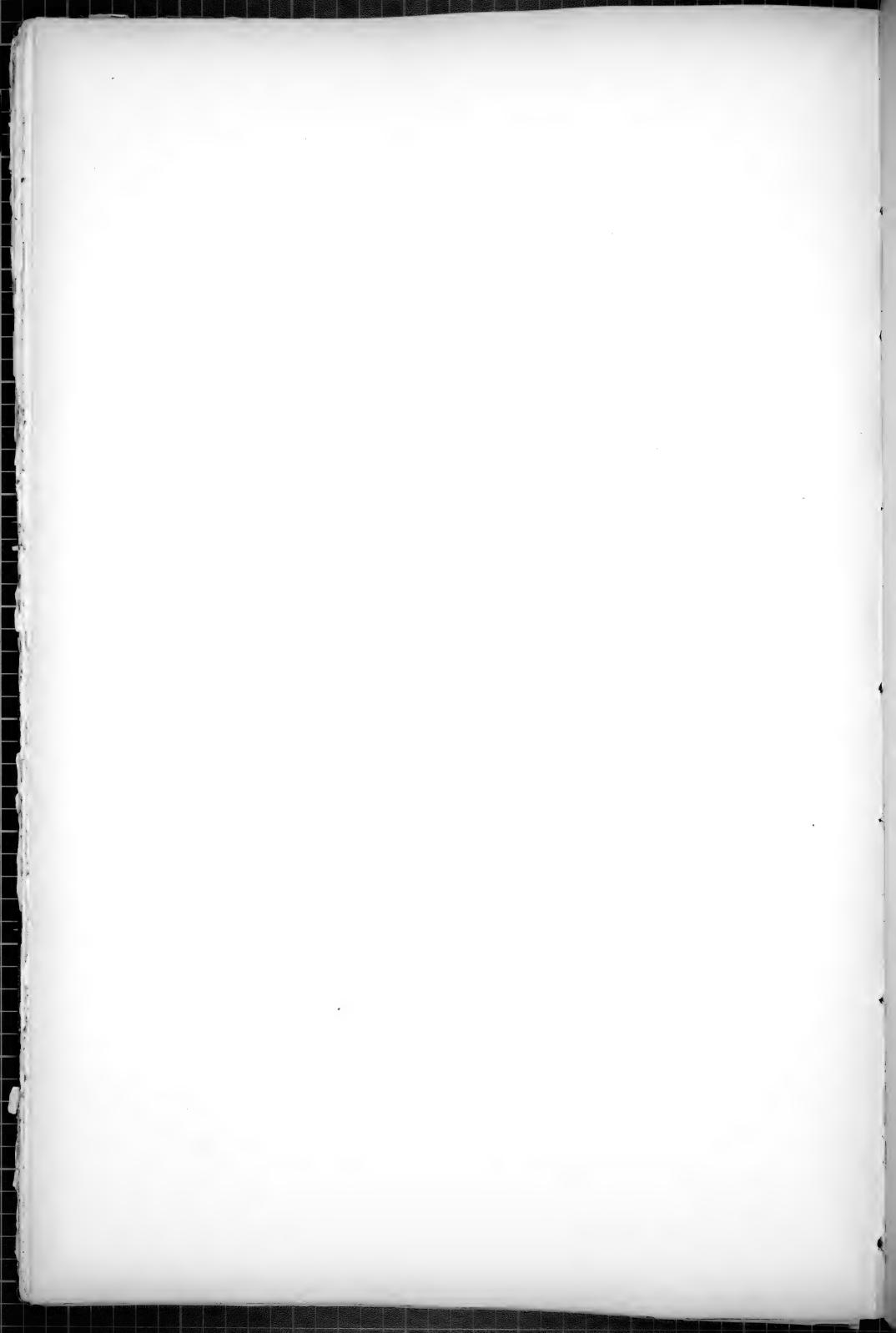
- 1. a.e. Serolis planus.
- 2. a.e. Leachia nodosa.
- $3. \ a. \dot{g}; \ Tanais (Paratanais?) \ brasiliens is.$
- . 7. a. e. Argeia pugettensis.
- a . e. Paratanais elongatus.
 a . d. Leptochelia minuta.
 a . d. Cryptothir minutus.

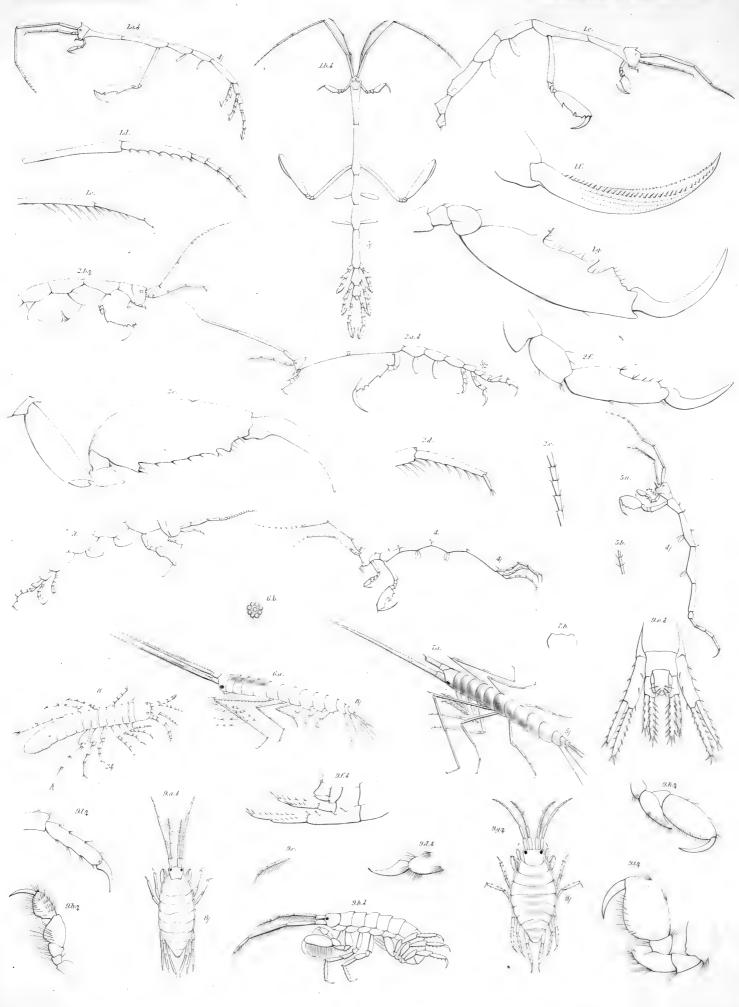




- 1 a. k. Proto elongatus.
- 2 a...f. Protella gracilis.
- 3 a...e. Caprella dilatata.

- 4. a...e. Caprella robusta.
- 5 a.i.g. _____ cormuta.
 6 _____ mu:obtusirostris.





1. a.g. Caprella attenuata.

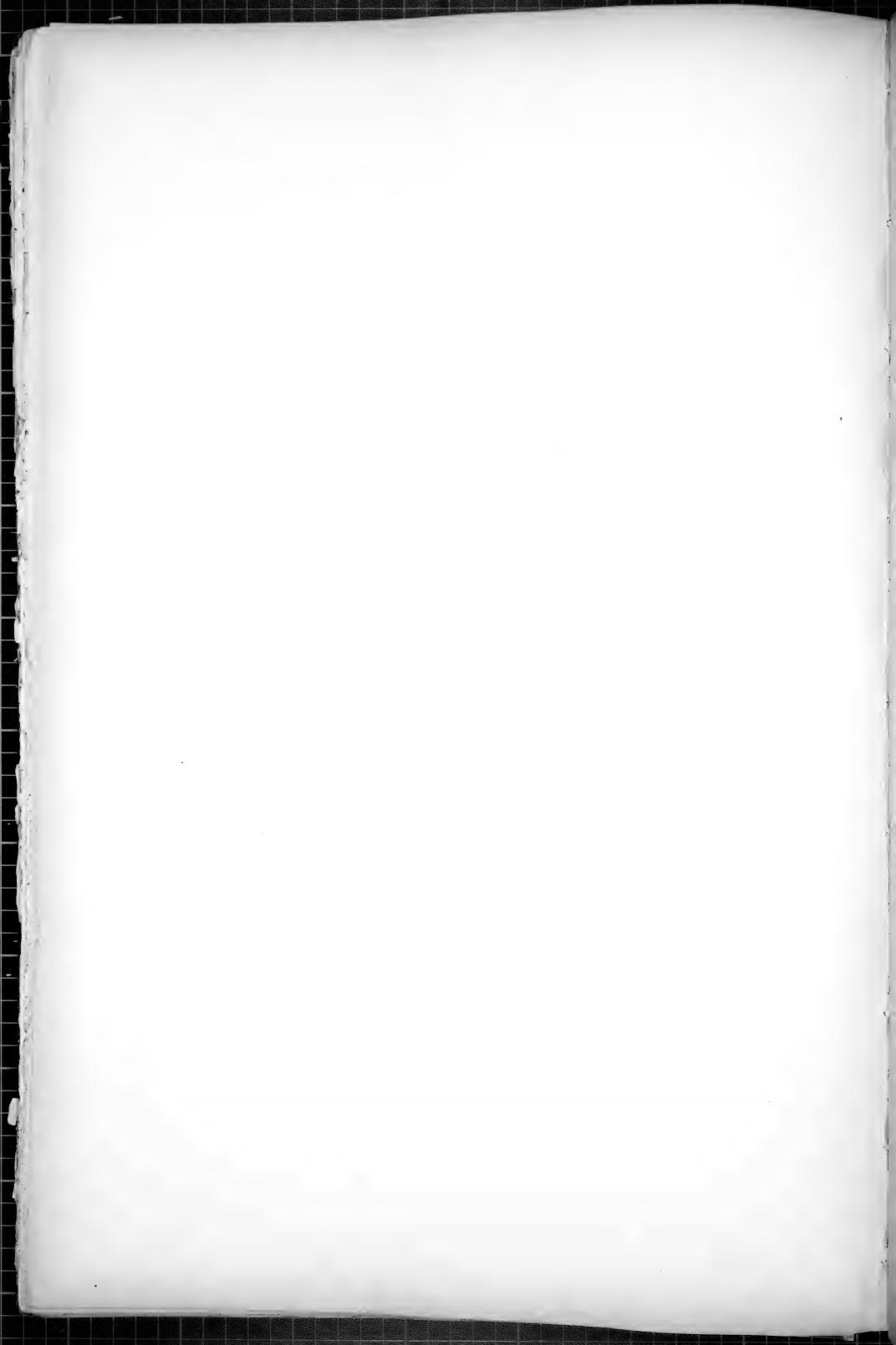
2. a.f. Januarii.
3. globiceps (jun.)
4. Ægina? tenella.

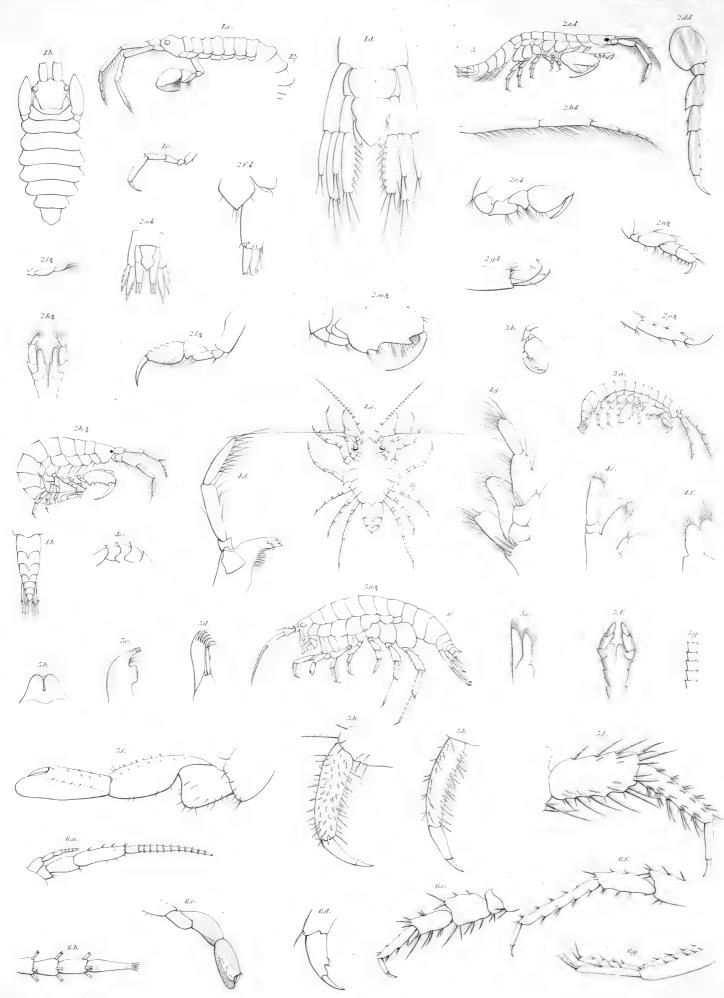
9.a.1.Platophium brasiliense.

Ægina? aculeata.

6. a . b. Clydonia gracilis.
7. a . b. . . . longipes.
8. . . Corophium? quadriceps.

W.H.Daugal Sc.

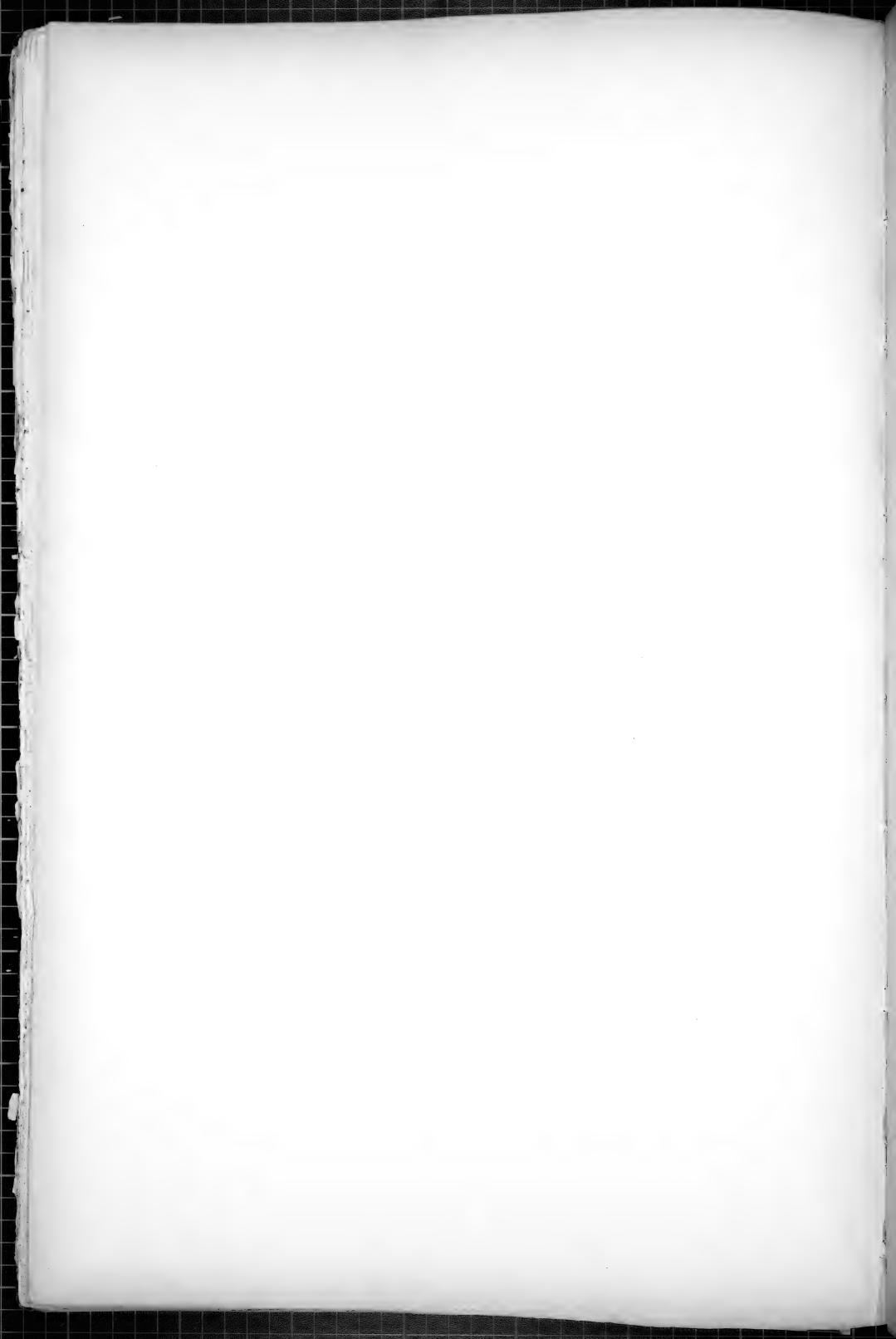


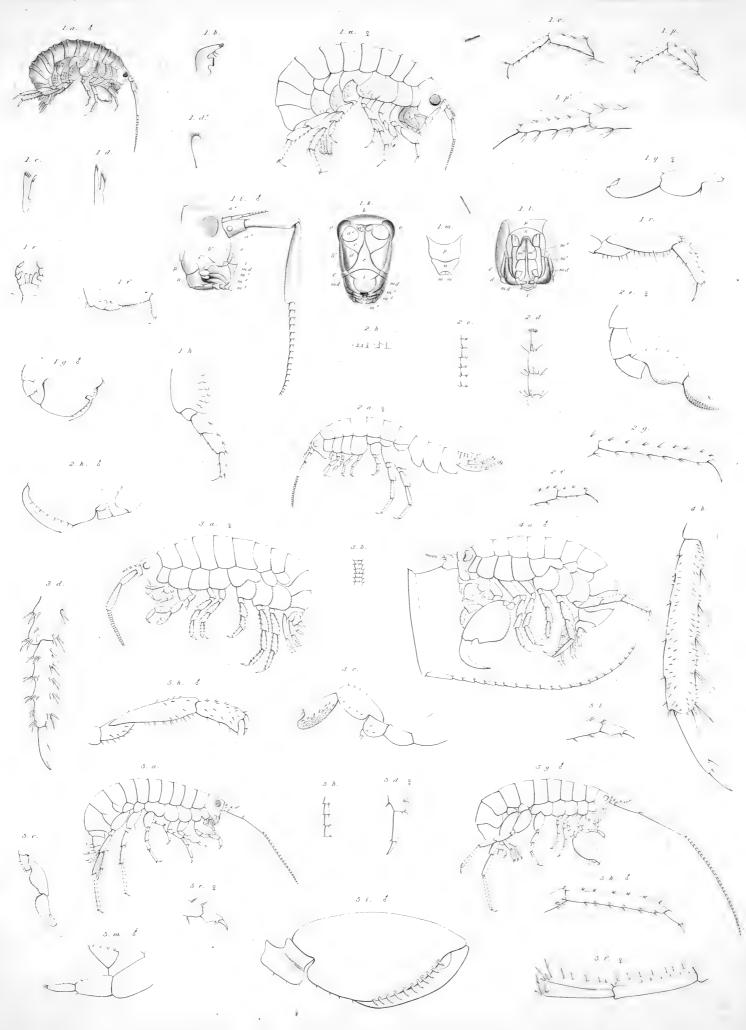


- 1 a...d. Cyrtophium orientale.
- 2 a...o. Cratophium validum.
- 3 a.b. _____ orientale.

- 4 a...g. Icilius ellipticus.
- 5 , a...1. Orchestia Talitrus?) novi-zealandiæ .
- 6. a...g. _____(Taliums?; brevicornis.

W.H.Dongal Se





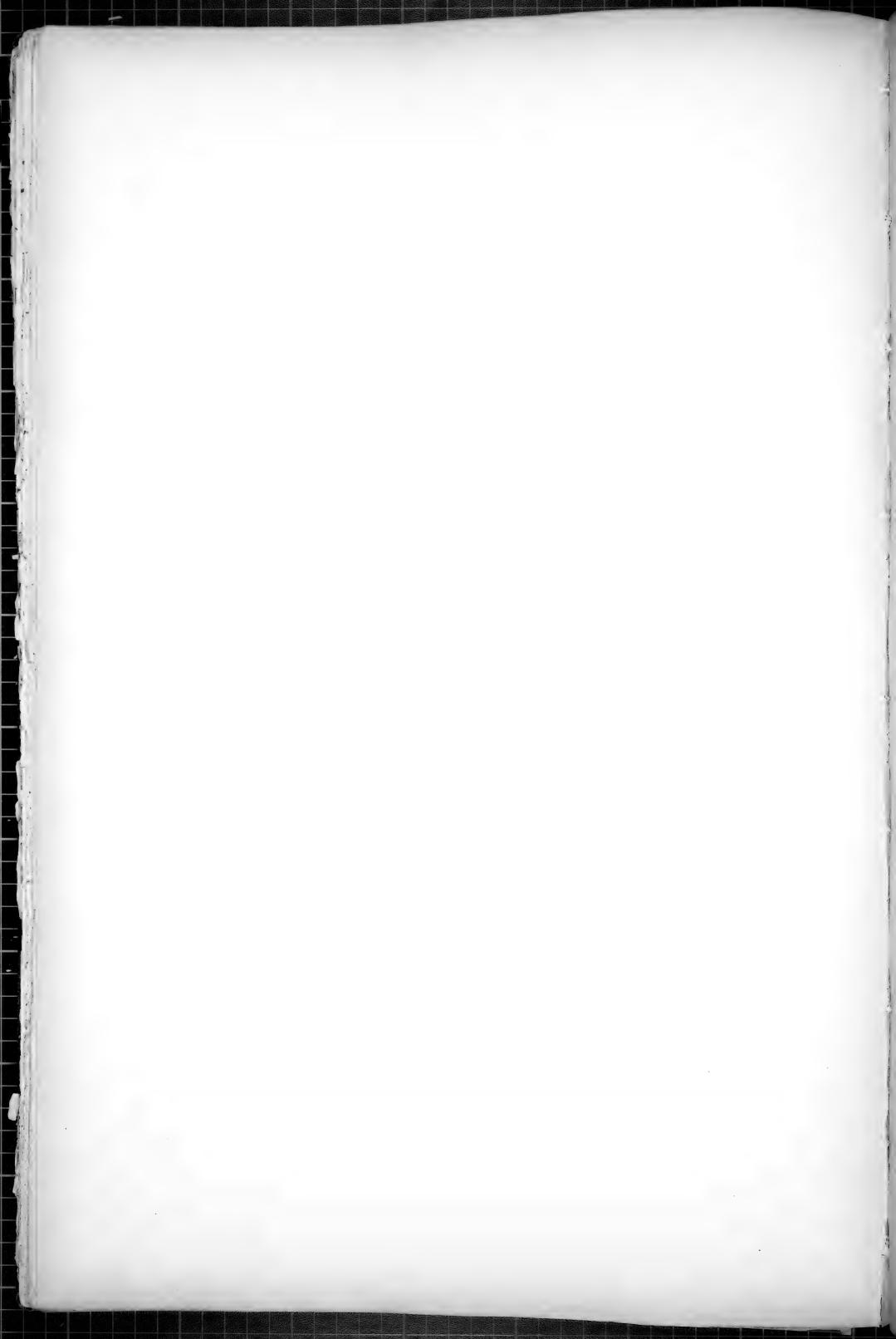
l a..r. Orchestia (Talitrus) inisculpta... 3 a..d. Orchestia (Talitrus) pugettensis.

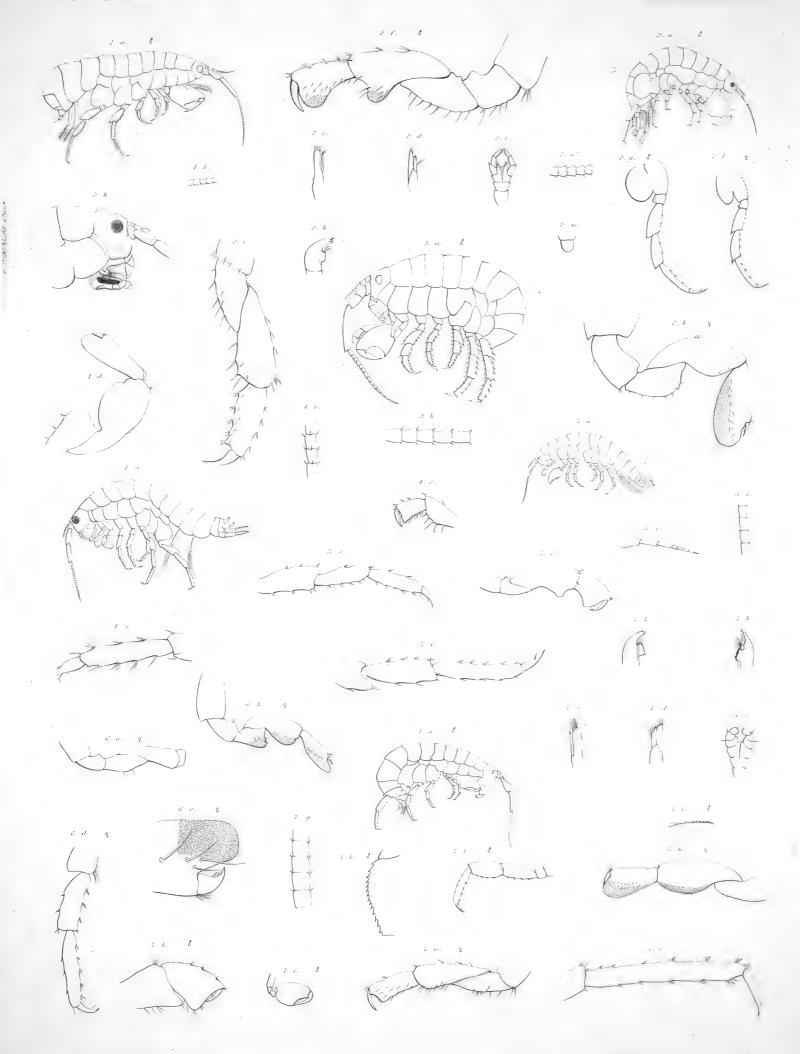
2 a. h. _____ brasiliensis 4 a. b. _____ scabripes.

5 a..m. Orchestia (Talorchestia) gracilis.

Drawn by J.D. Dana.

W.H. Dougal So.

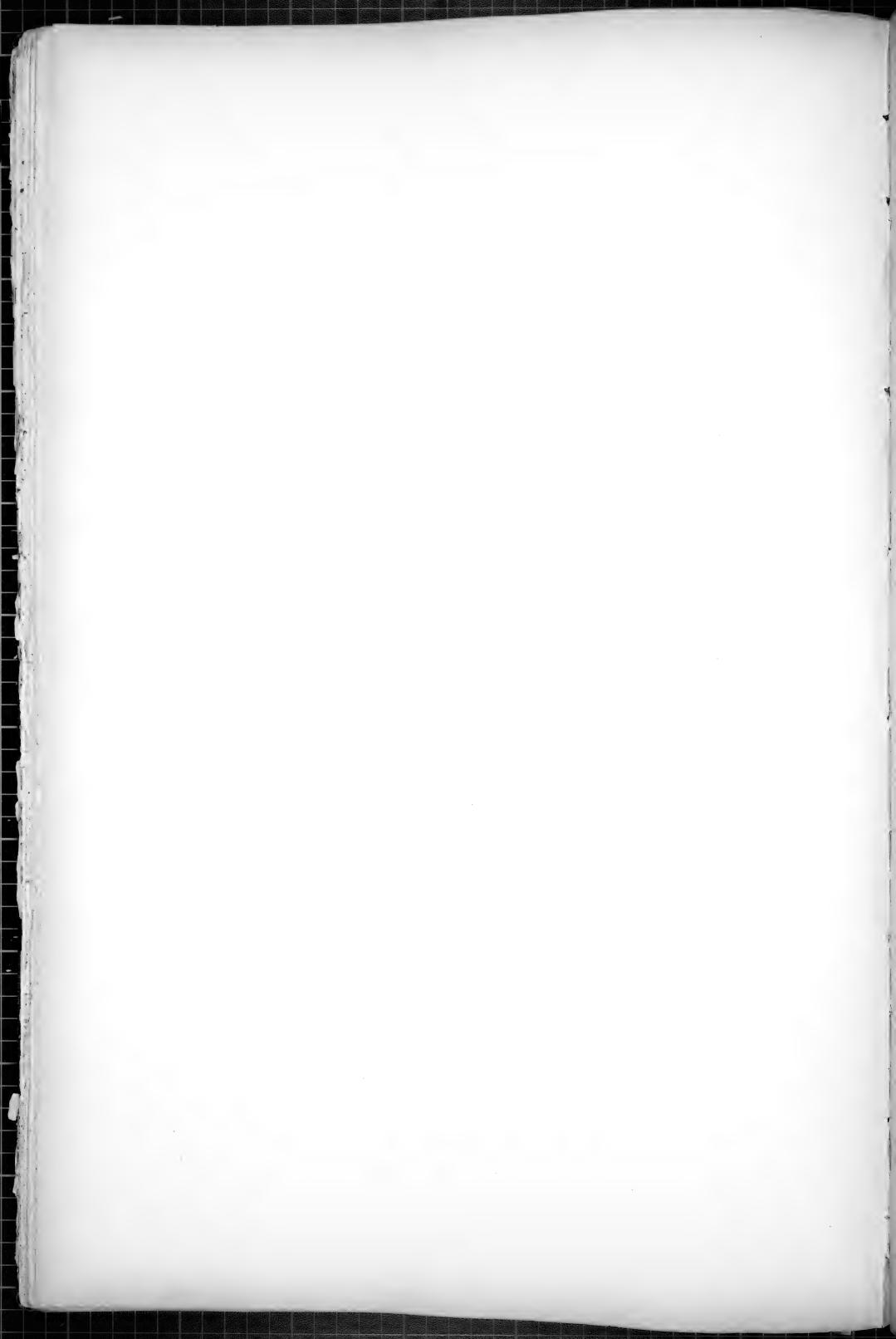


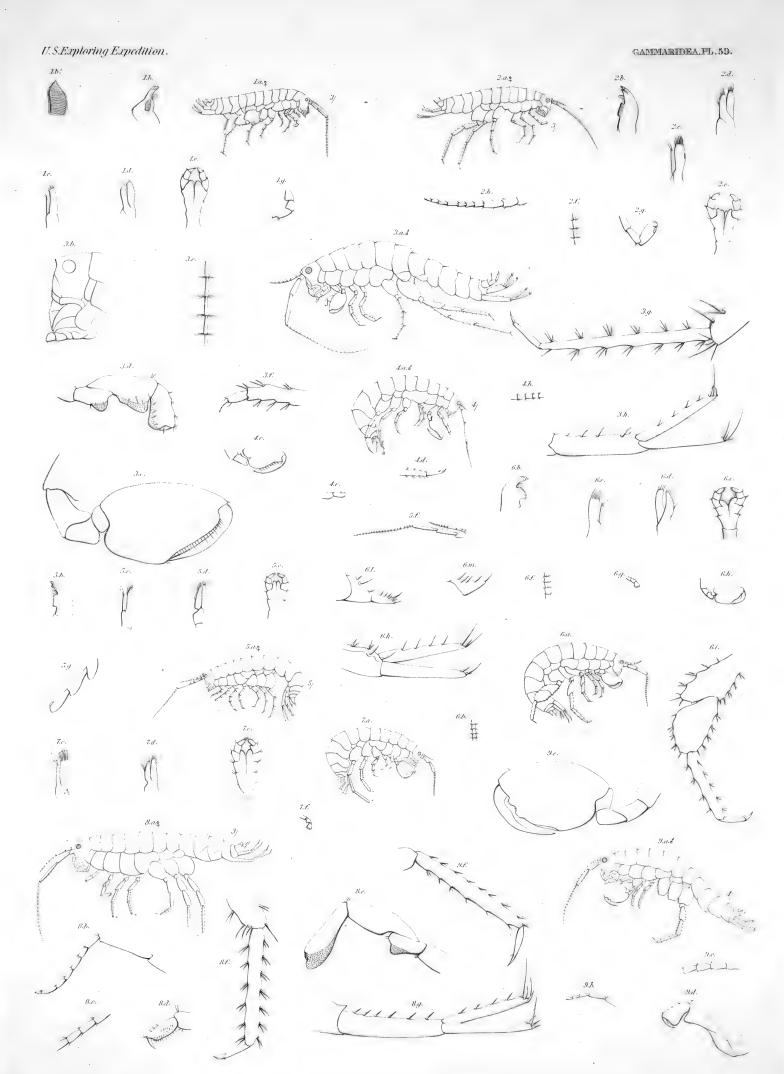


1. a. b. Orchestia Quoyana.
2. a. m. _____ scutigerula.
3. a. b. _____ capensis.

4. a. e. Orchestia chilensis.
5. a. r. ______ nitida: 6. a. d. § ?
7. a. o. _ ____ serrulata.

Drawn by J.D.Dana.

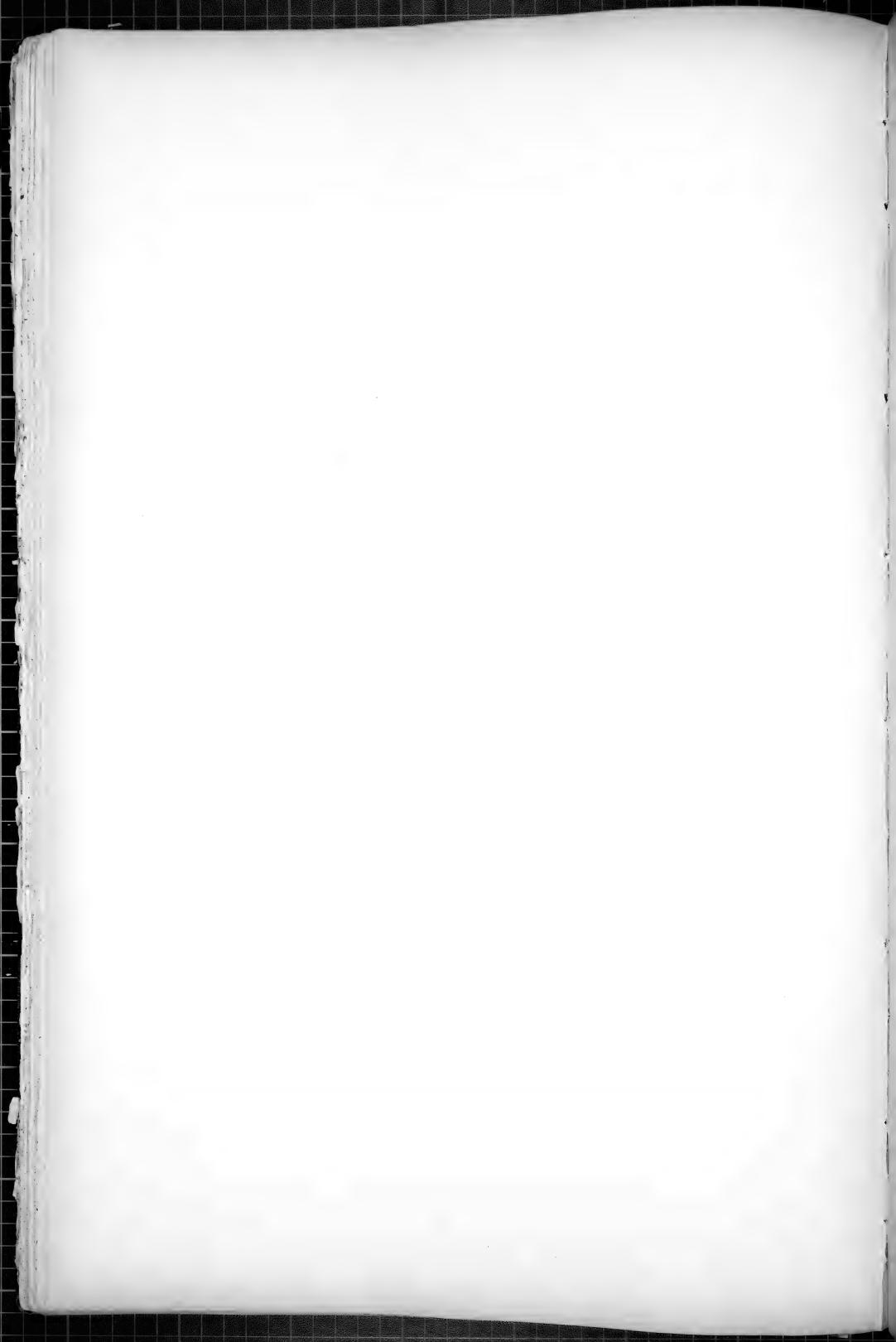


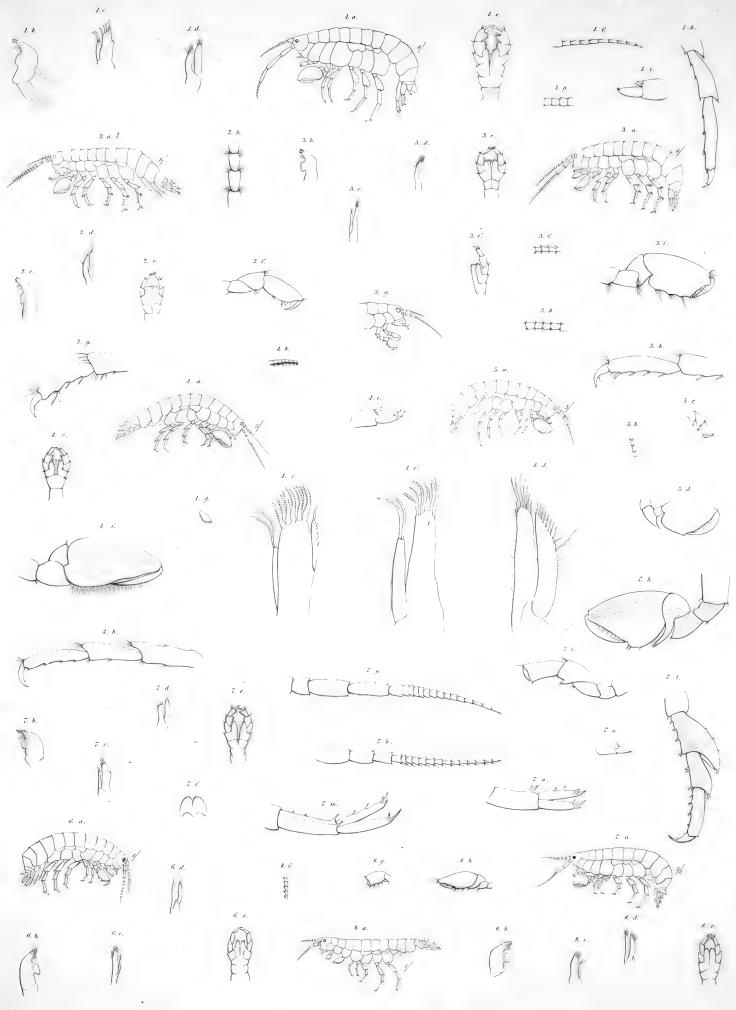


1. a.g. Orchestia tennis.
2. a.h. .. sylvicola;3a-h.f(?).
4. a.e. ., spinipalma.
5. a.g. ,, tahitensis.

6. a.m. Orchestia dispar.

7. a · f · , , quadrimana. 8. a · g · , hawaiensis. 9. a · f · , , Pickeringii.



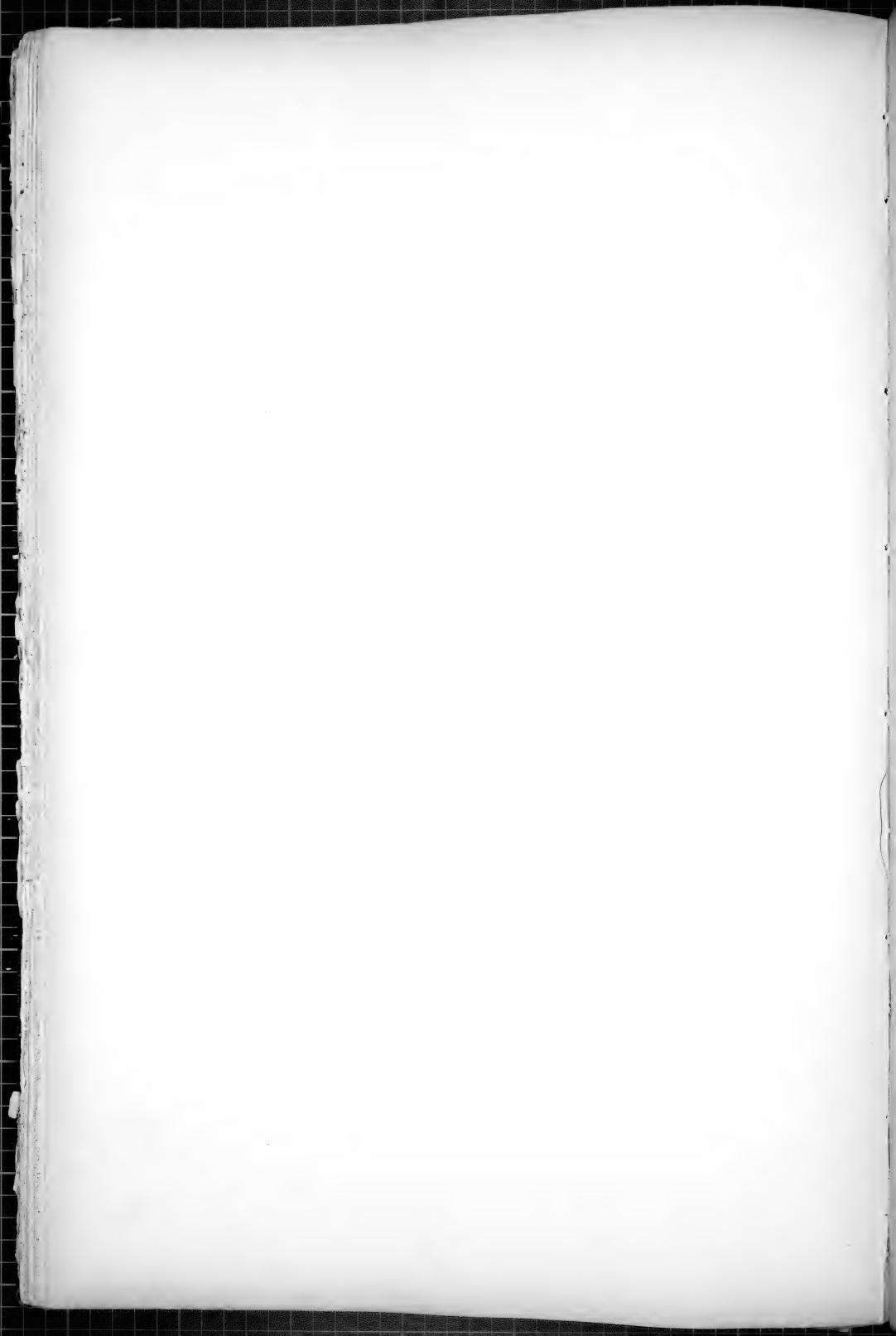


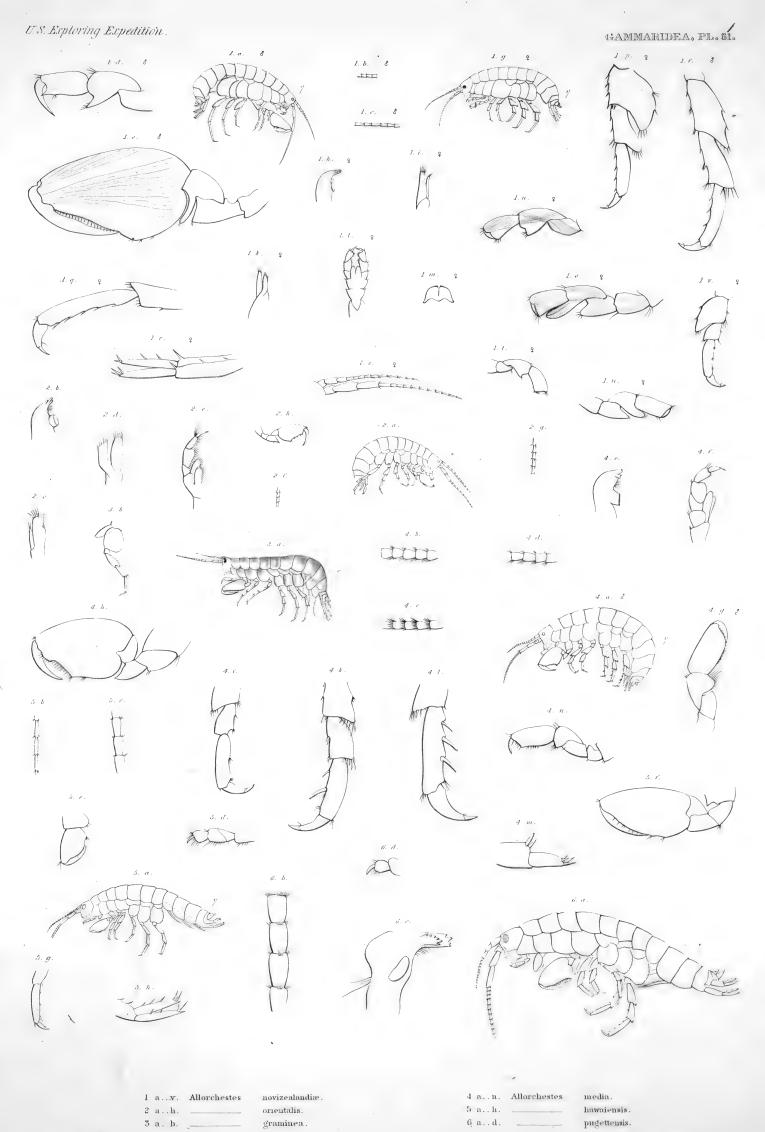
1	ai.	Allorchestes	Gaimardii.
2	a g:		verticillata.
5	ak.		
4	ai.		hirtipalma.

5 a. d. Allorchestes gracilis.
6 a. e. humilis.
7 a. o. australis.
8 a. h. _____ brevicornis.

Drawn by J.D. Dana.

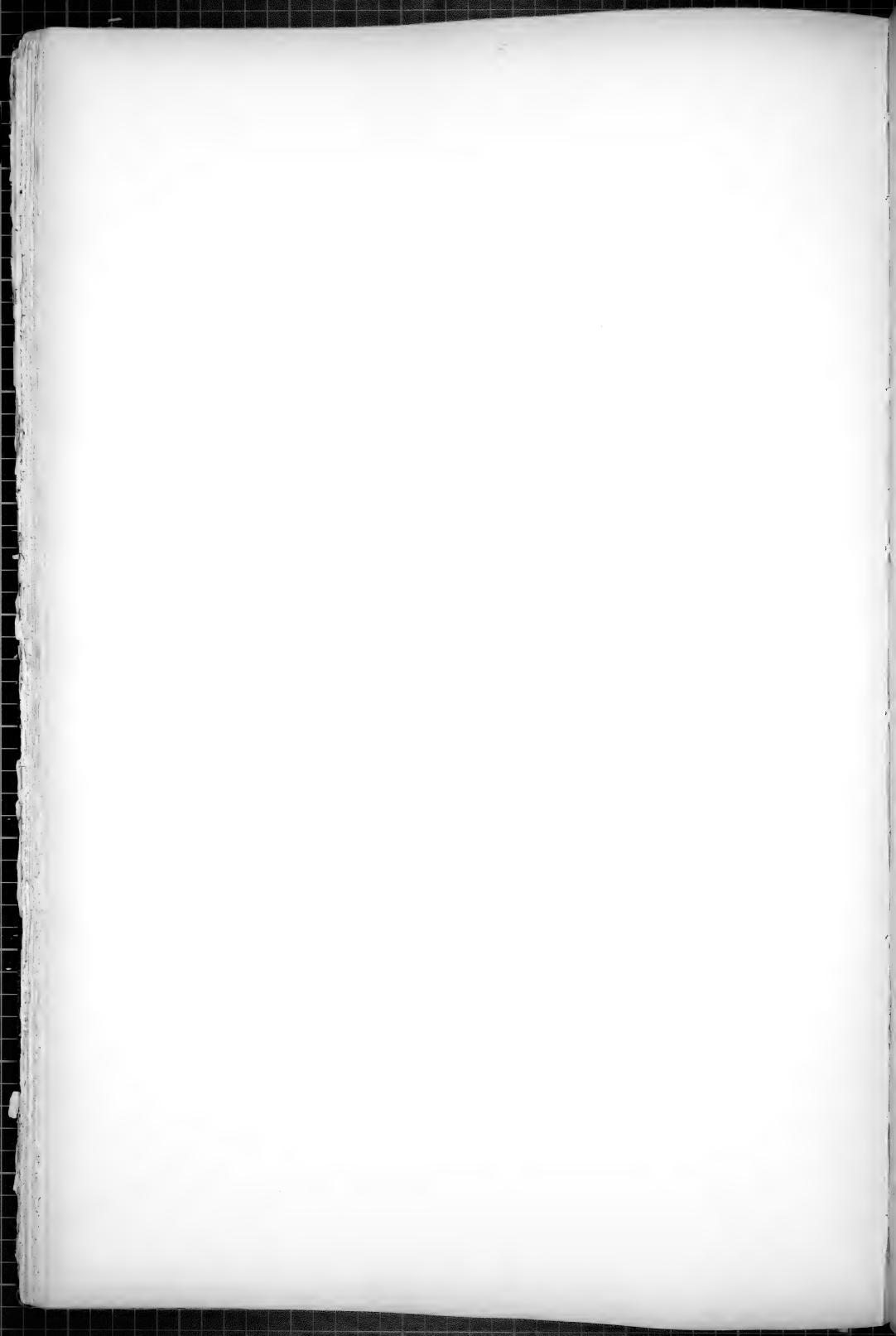
W. H. Dougal Sc.

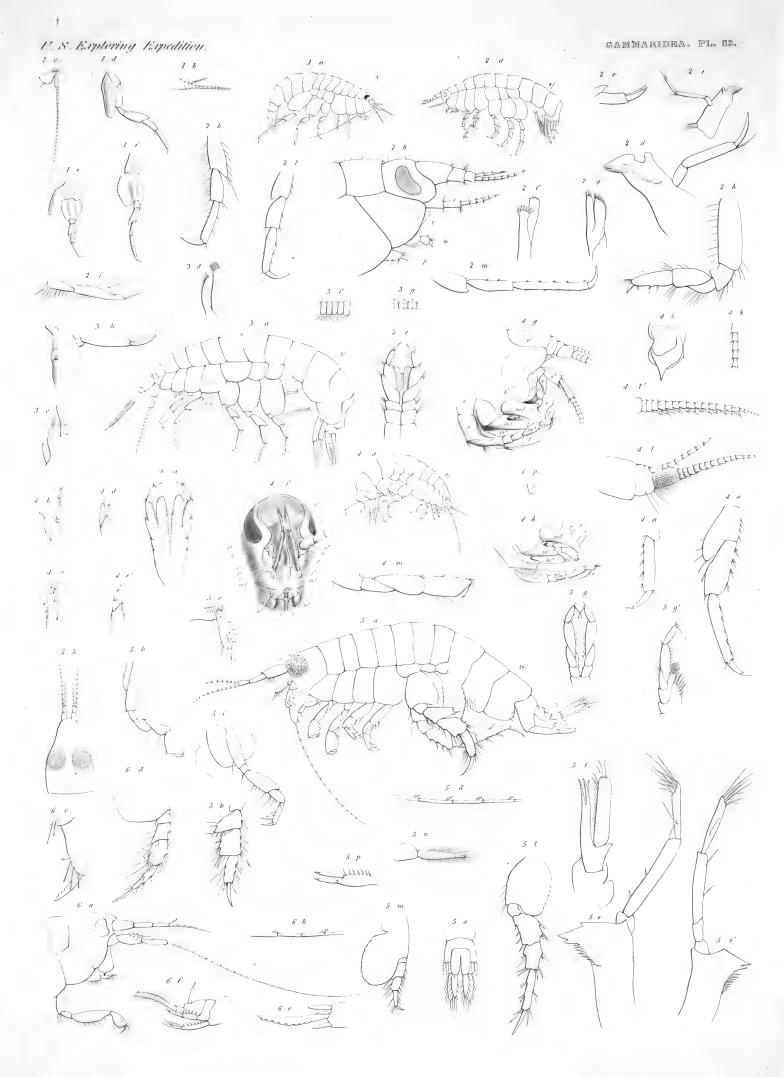




Drawn by J.D. Dana.

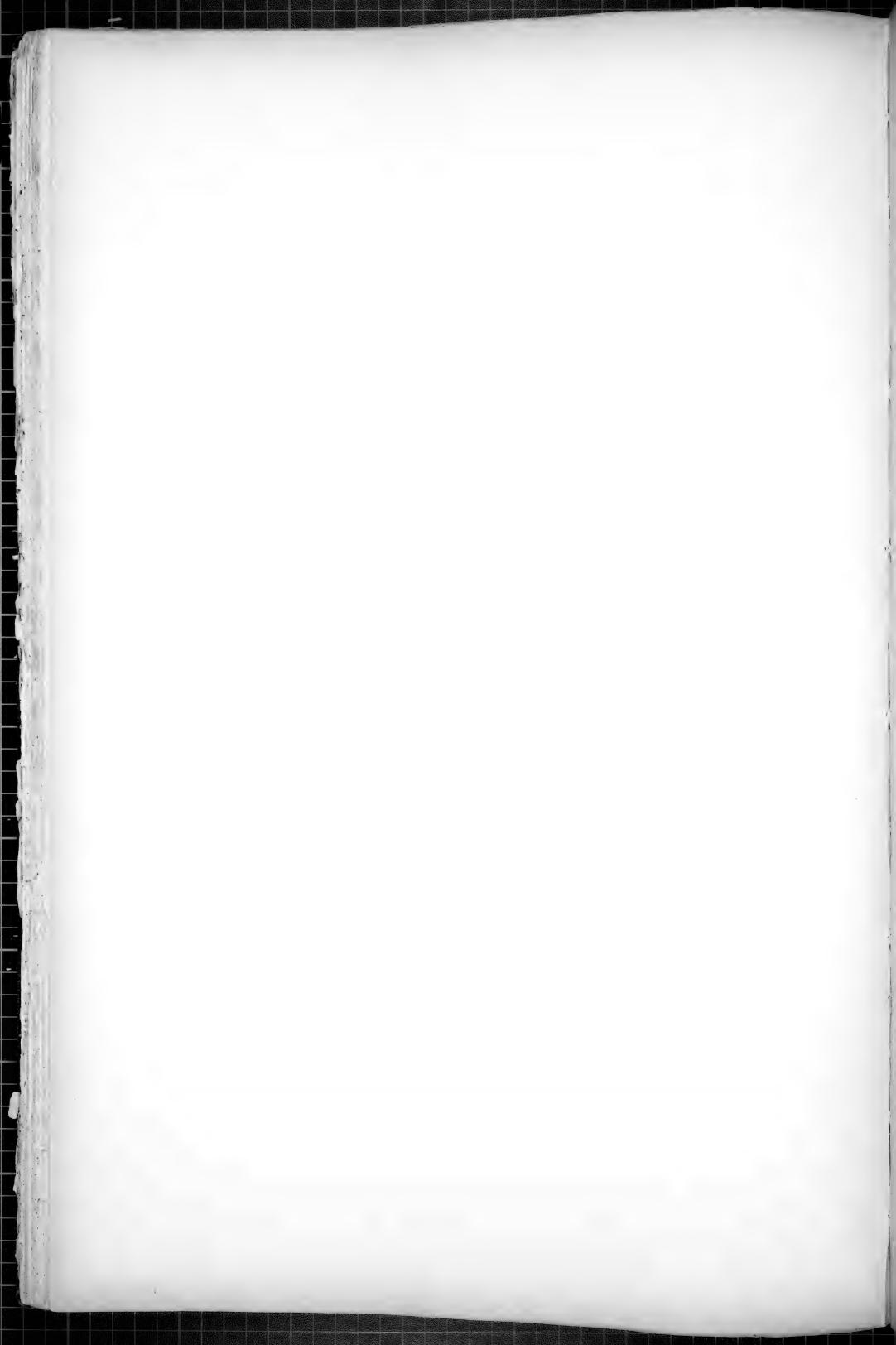
W. H. Dougal Sc

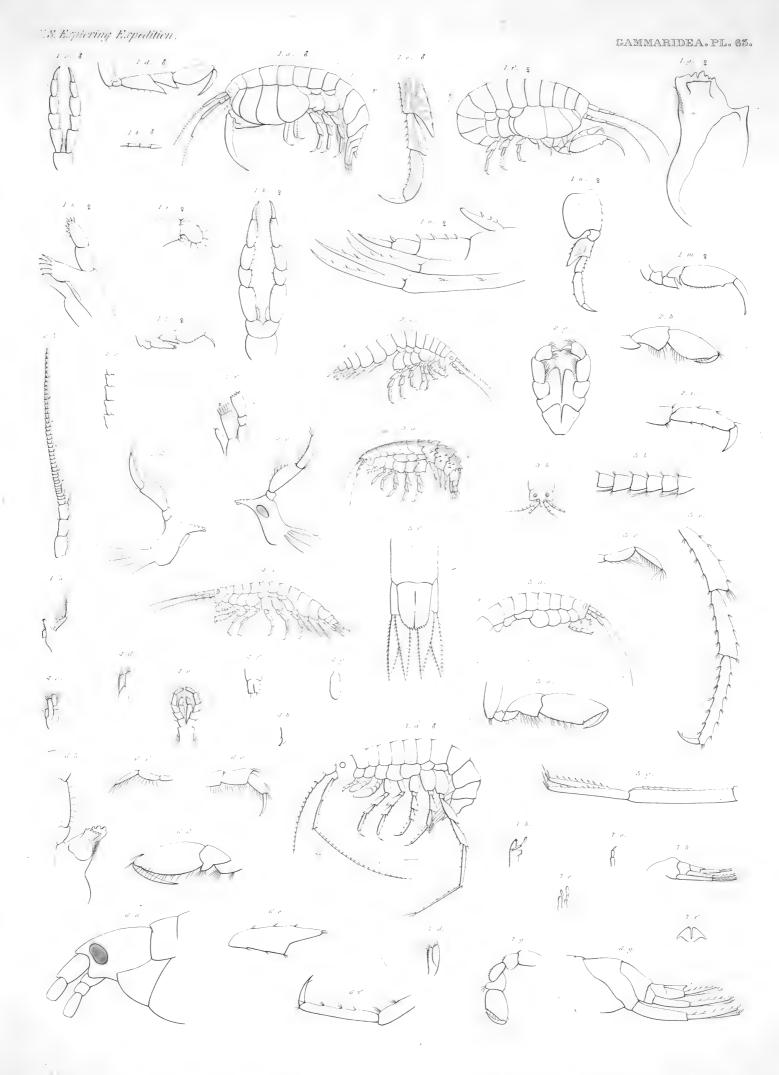




1 a. f. Lysianassa? brasiliensis 2 a. m. _____ nasuta 3 a. g. Uristes gigas

4 a. p. Anonyx fuegiensis
5 a. p. Urothoe rostratus
6 a. f. ______ irrostratus





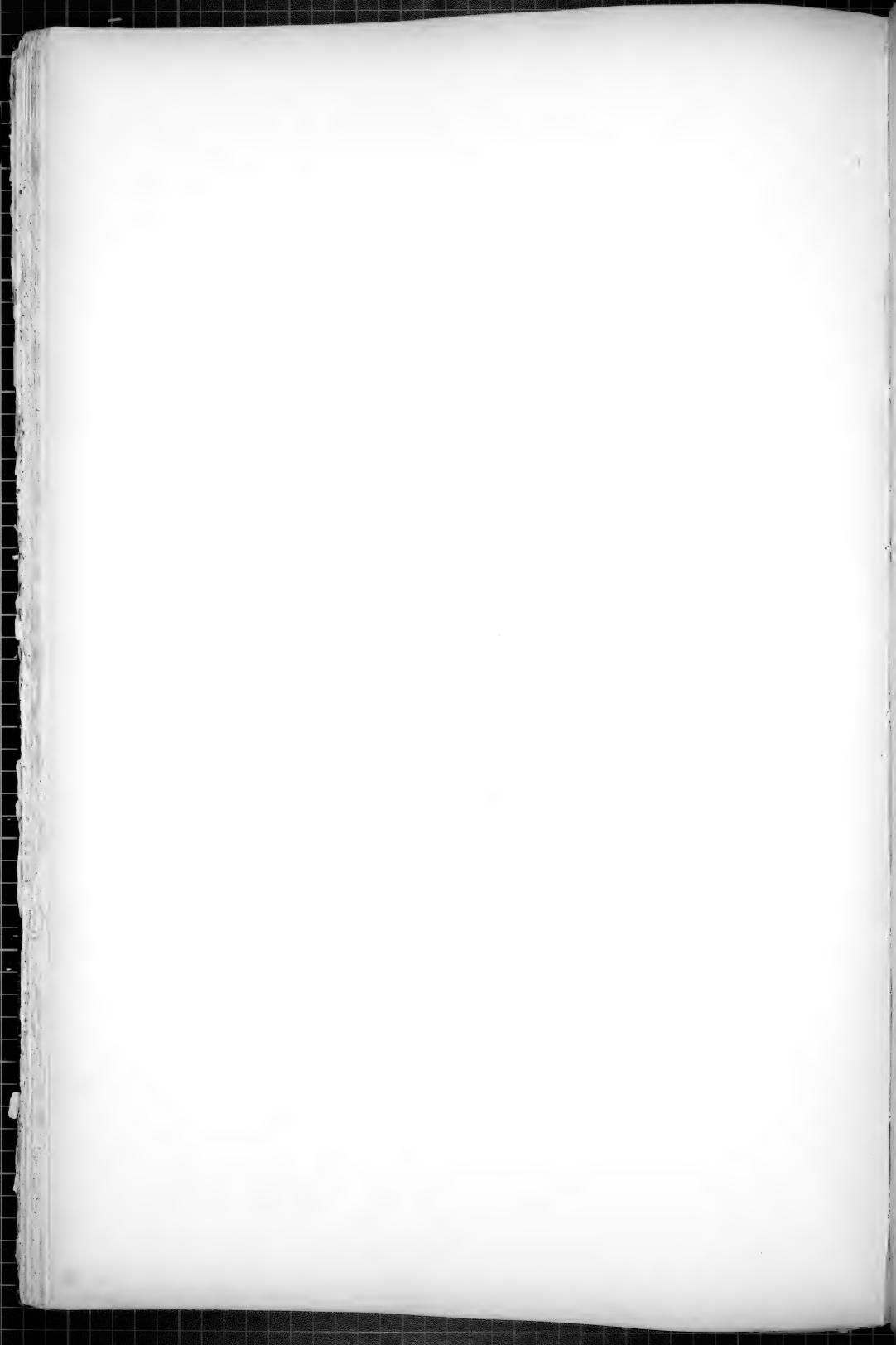
 1 a. o.
 Stenothoe
 validus.
 4 a. g.
 Iphimedia

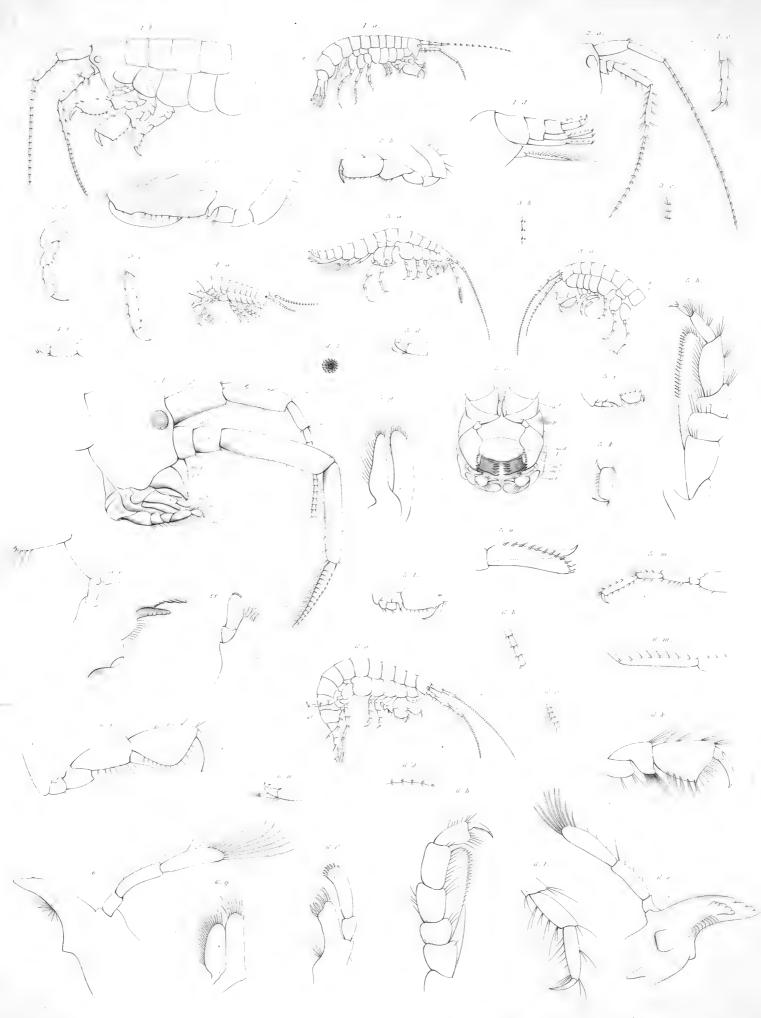
 2 a. i.
 Iphimedia
 5 a. g.

 3 a. b.
 d*
 nodosa.
 6 a. g.

 7 a. h.
 Edicerus
 novi-zealandia.

4 a. g. Iphimedia fissicanda.
5 a. g. ____ capensis.
6 a. g. ___ pugettensis. pugettensis.





1 a..d. Amplithoe rubella.
2 a..f. __ _ orientalis.
3 a..c. _ _ tongensis.

Drawn by .I.D.Dana .

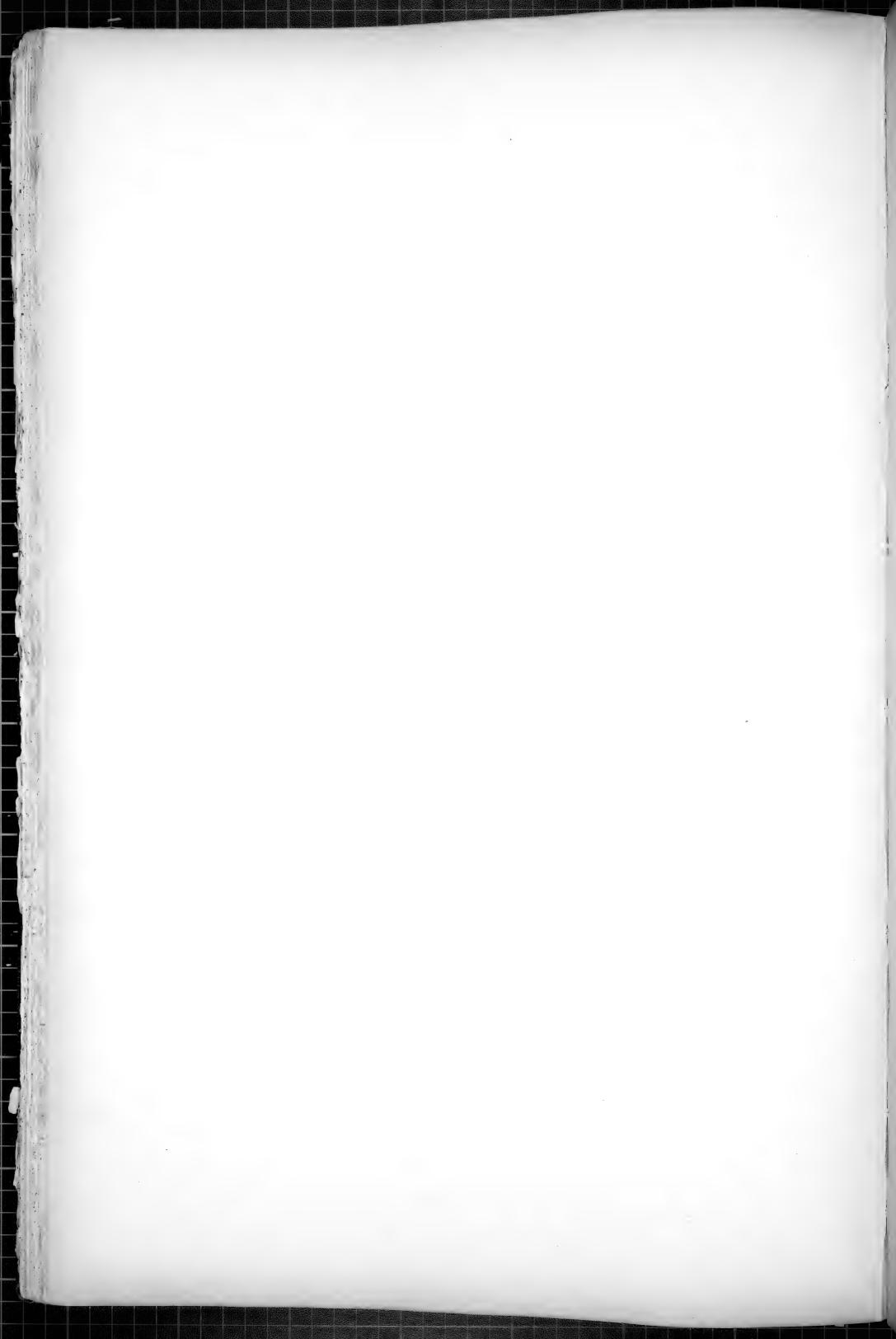
 4 a. b. Amphithoe
 peregrina

 5 a. n. ______
 brevipes

 6 a. n. ______
 brasiliensis

brasiliensis.

W.H.Dougal Sc.



1	ag.	Amphithoe
2	ае.	Gammarus

Dirawn by J.D. Dana.

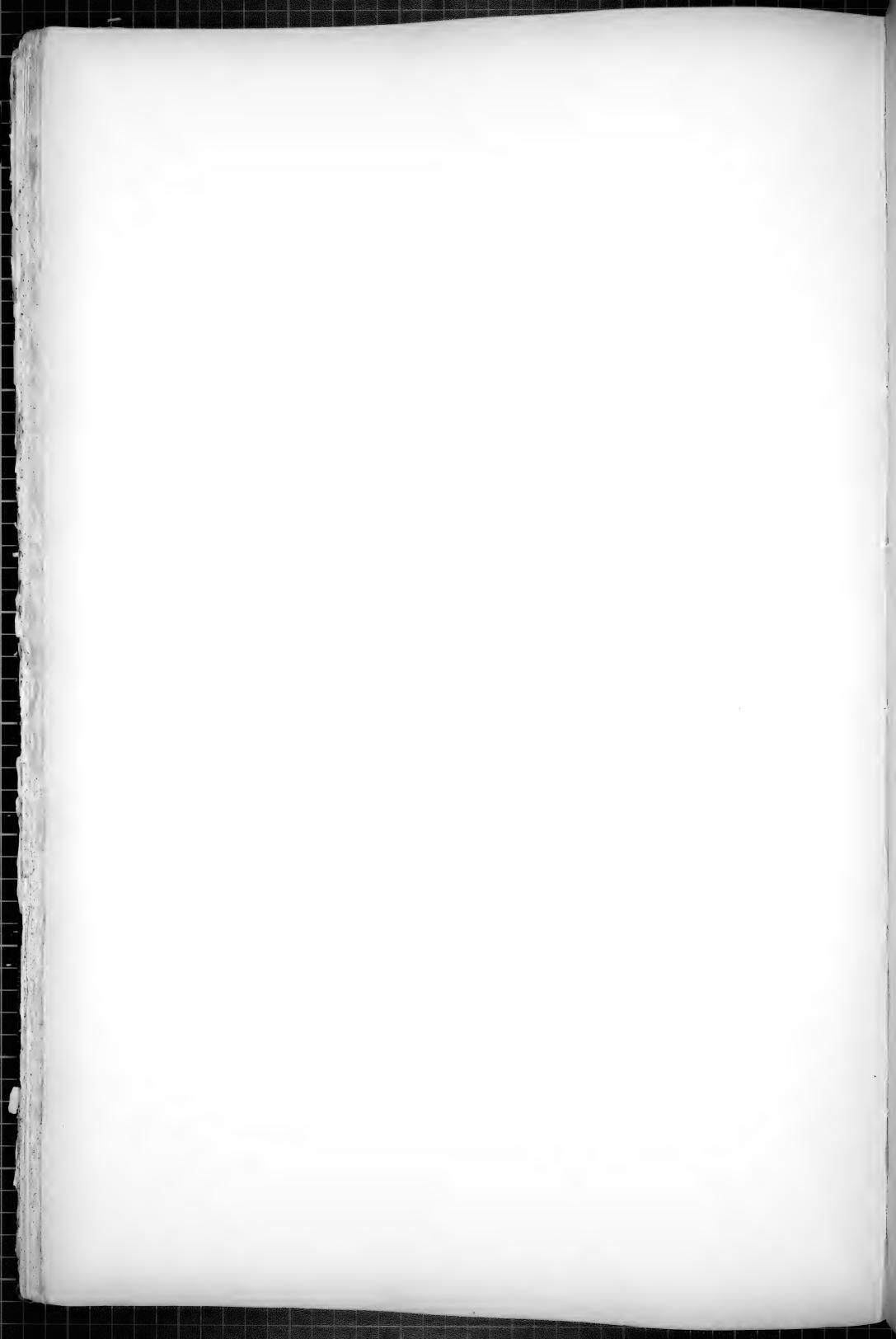
filicornis. asper. 5 a...t'. suluensis. 4 a..d. Gammarus albidus.

5 a.c. ______ tenuis.
6 a.b. ______ furcicornis.
7 a.e. _____ tenellus.

8 a..li. Gammarus fuegiensis.

9 a..g. _____ 10 a..e. ____ quadrimanus. brasiliensis.

W. H. Dougal Sc.



6 a.c.. Mæra valida

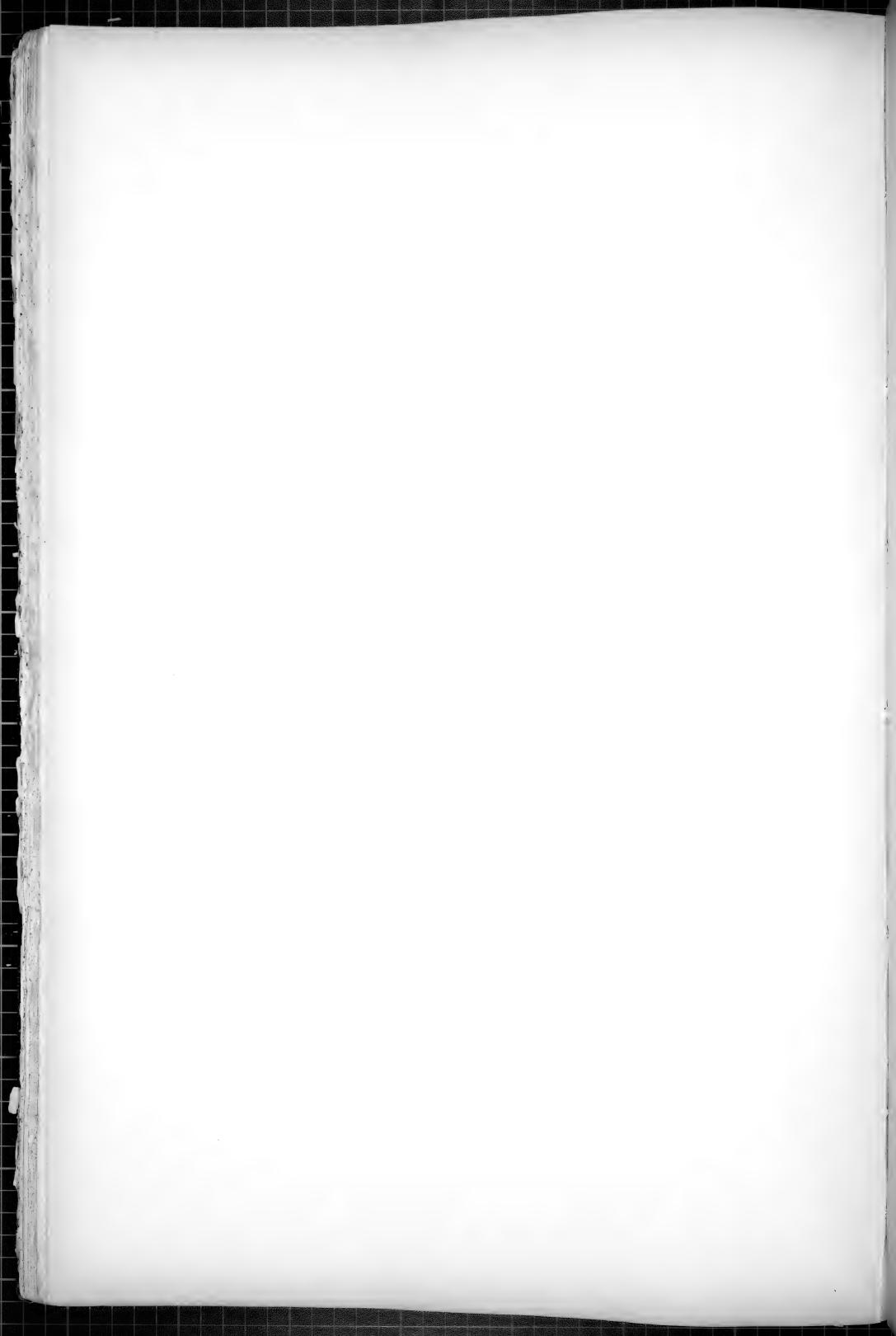
7 a. b. _____ setipes
8 a. d. _____ anisochir
9 a. e. . Dercothoe emissitins

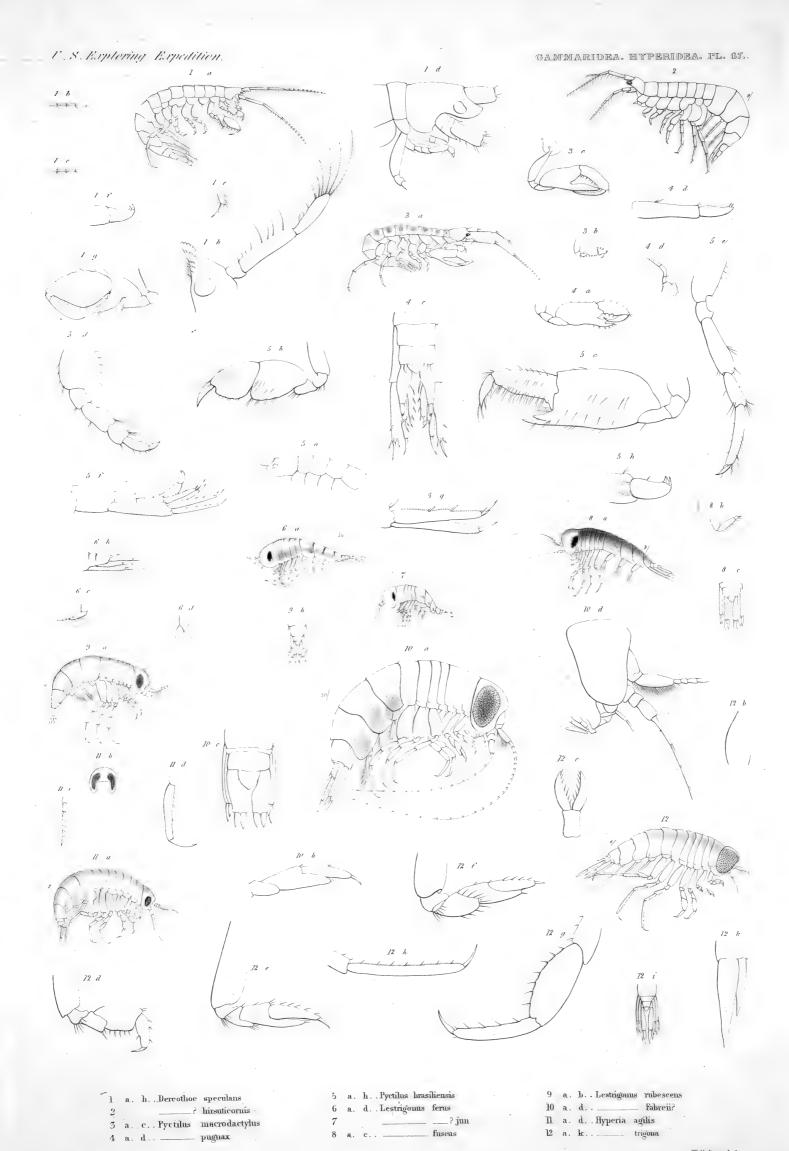
10 a. e.. : fem.

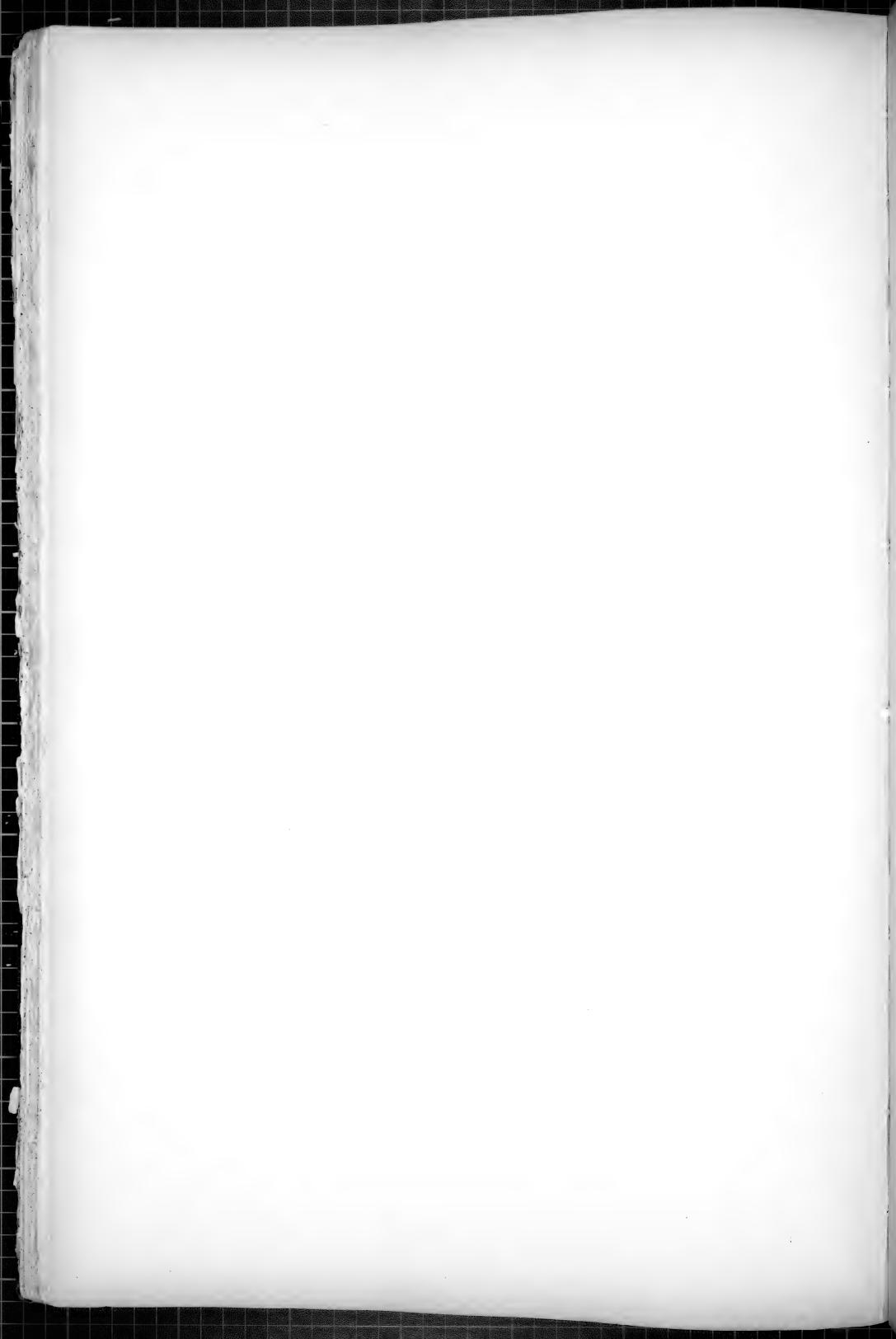
W. H. Dougal Sc.

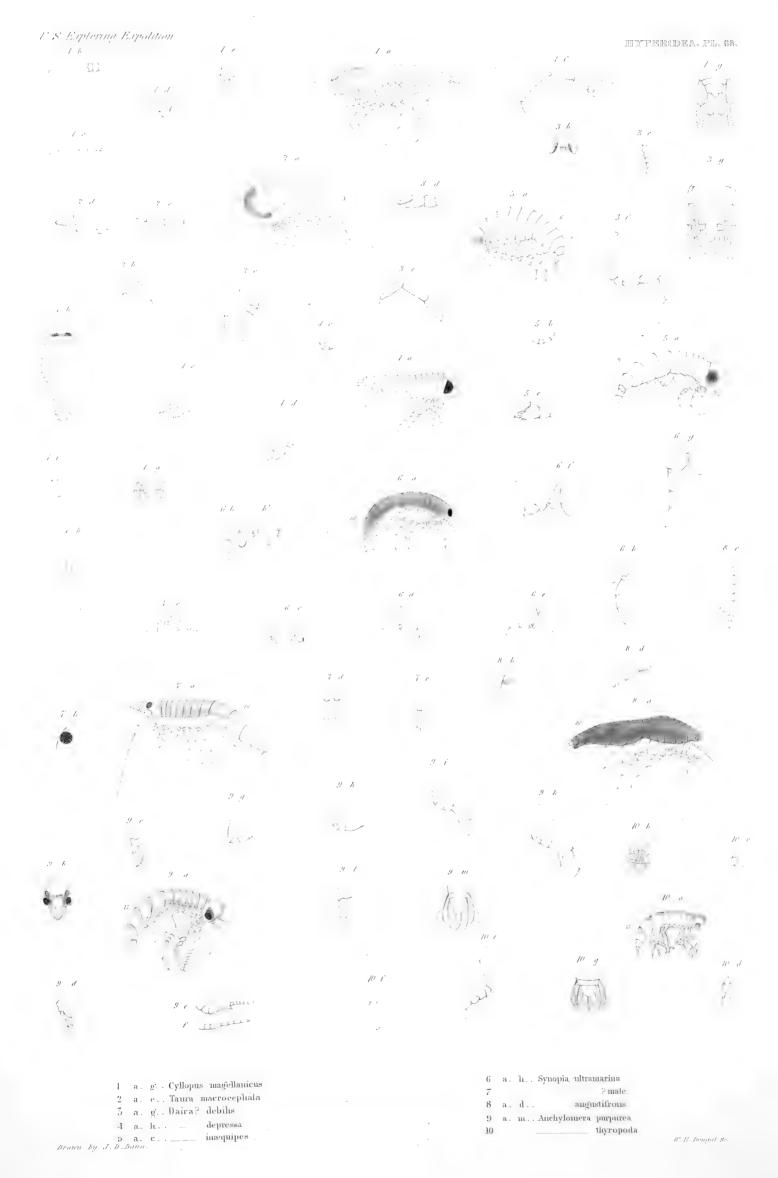
1 a. g. Gammarus pugettensis
2 a. e. ____ ? peruvianus
3 a. g. ____ .? pubescens
4 a. d. ____ ? indicus
5 a. m. Melita tenuicornis

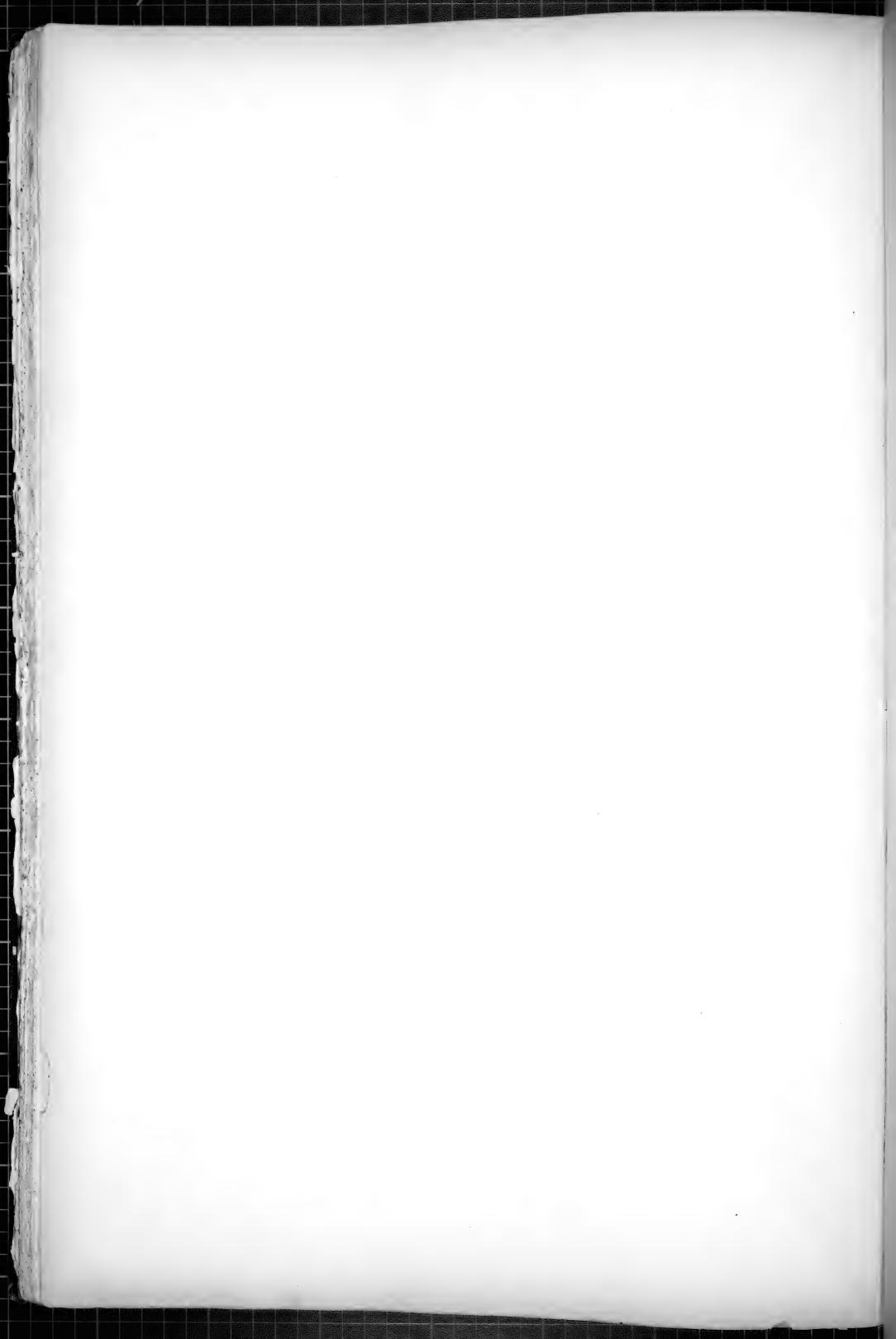
Irawa by J.D. Dana

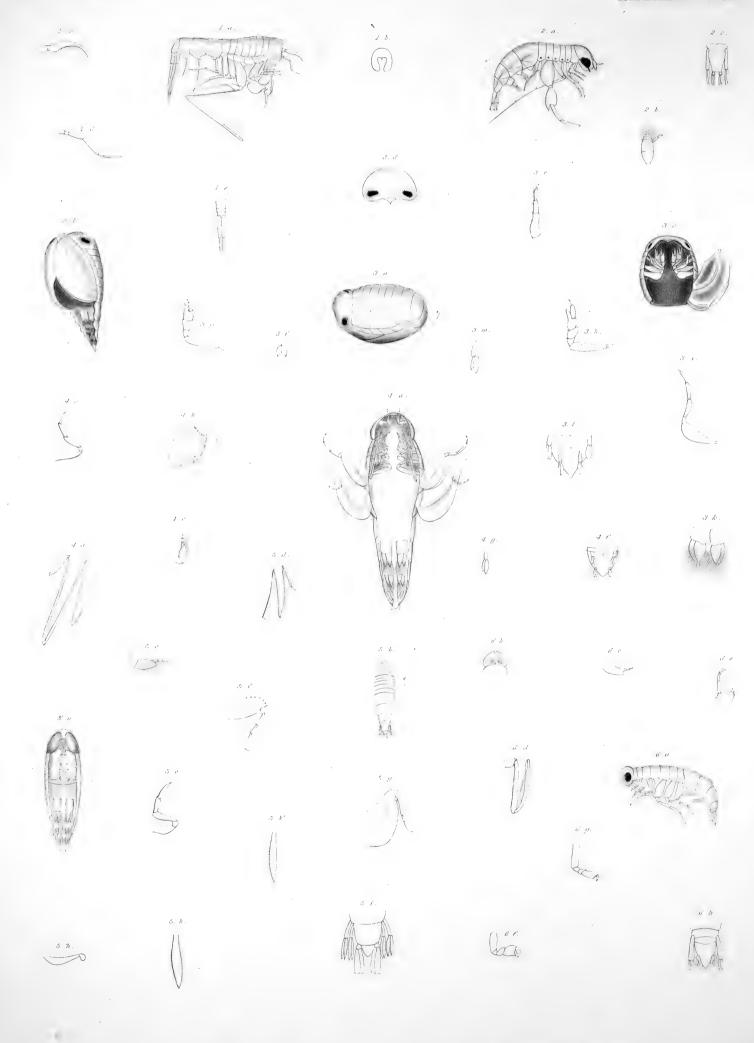








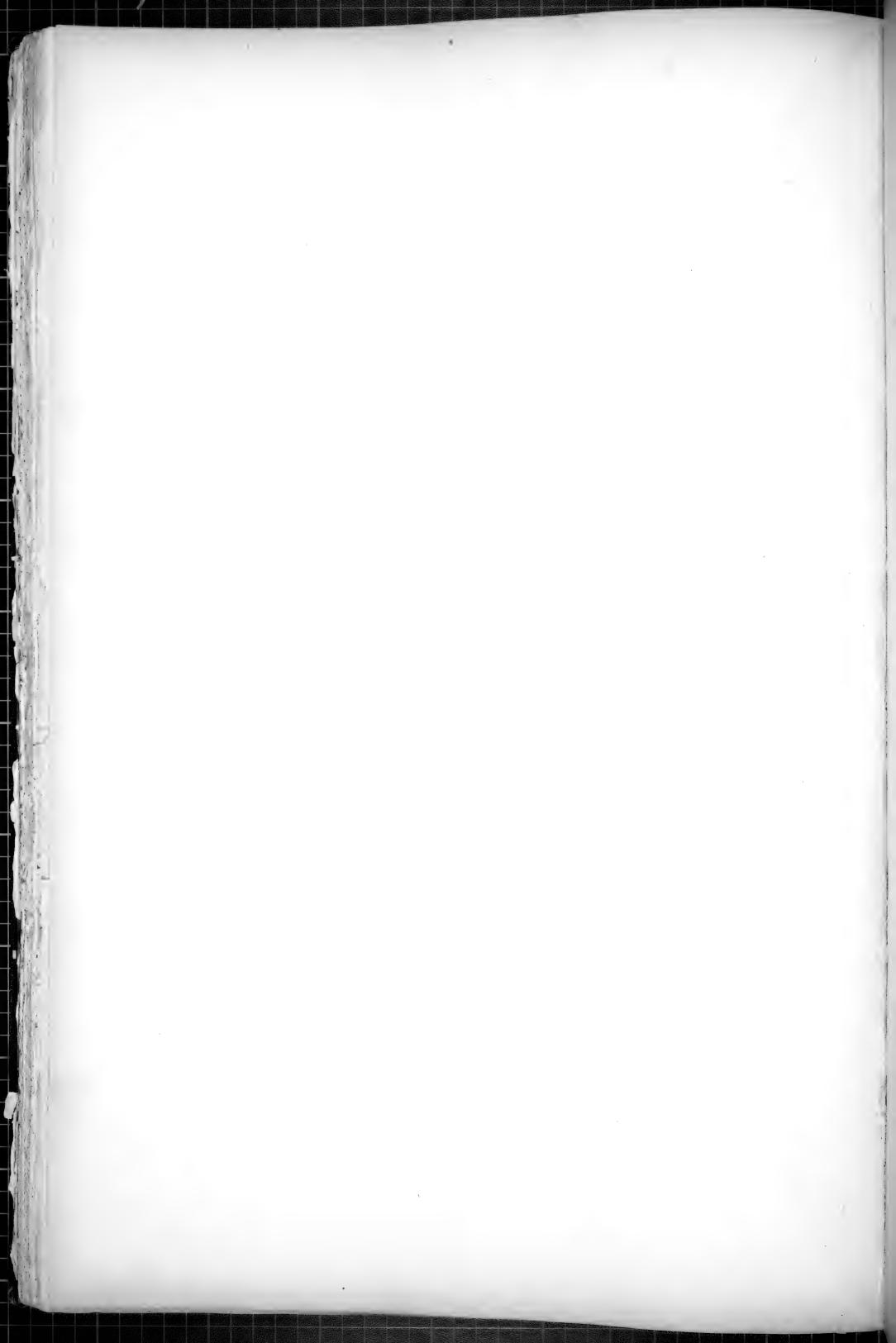




1 a..e. Themisto anterctica.
2 a..e. Phorcus hyalocephalus.
5 a..m. Dithyrus faba.

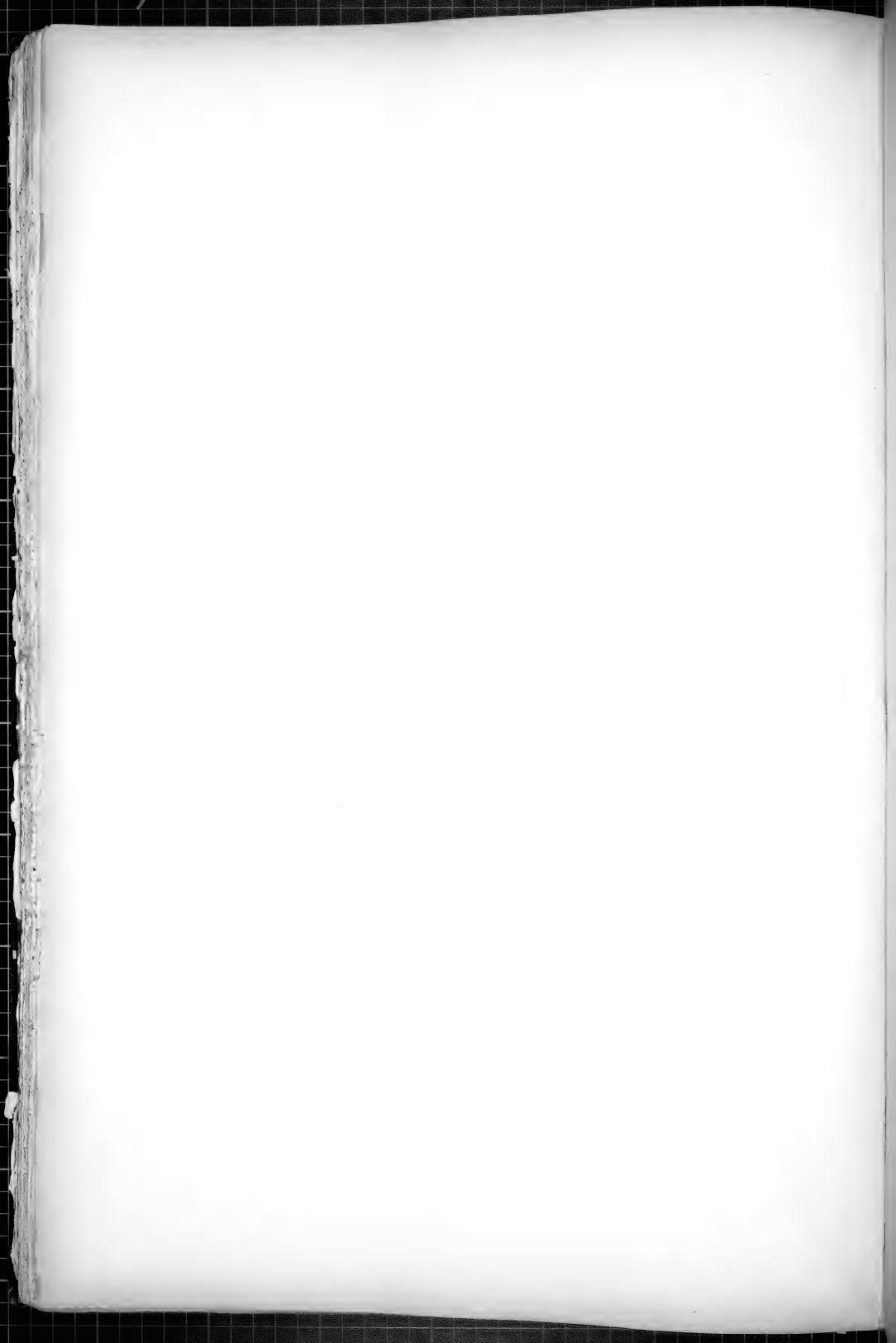
4 a.g. Thyropus diaphanus.
5 a.k. Pronoe brunnea.
6 a.h. Lycæa ochracea.

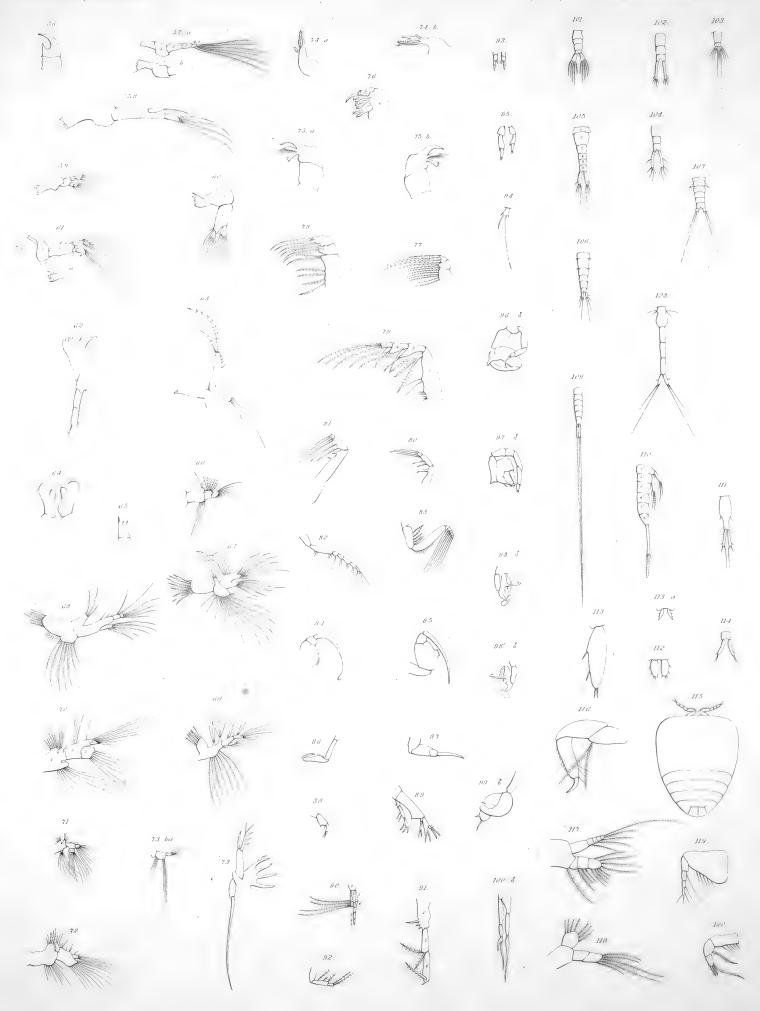
W. H. Dougal Se.



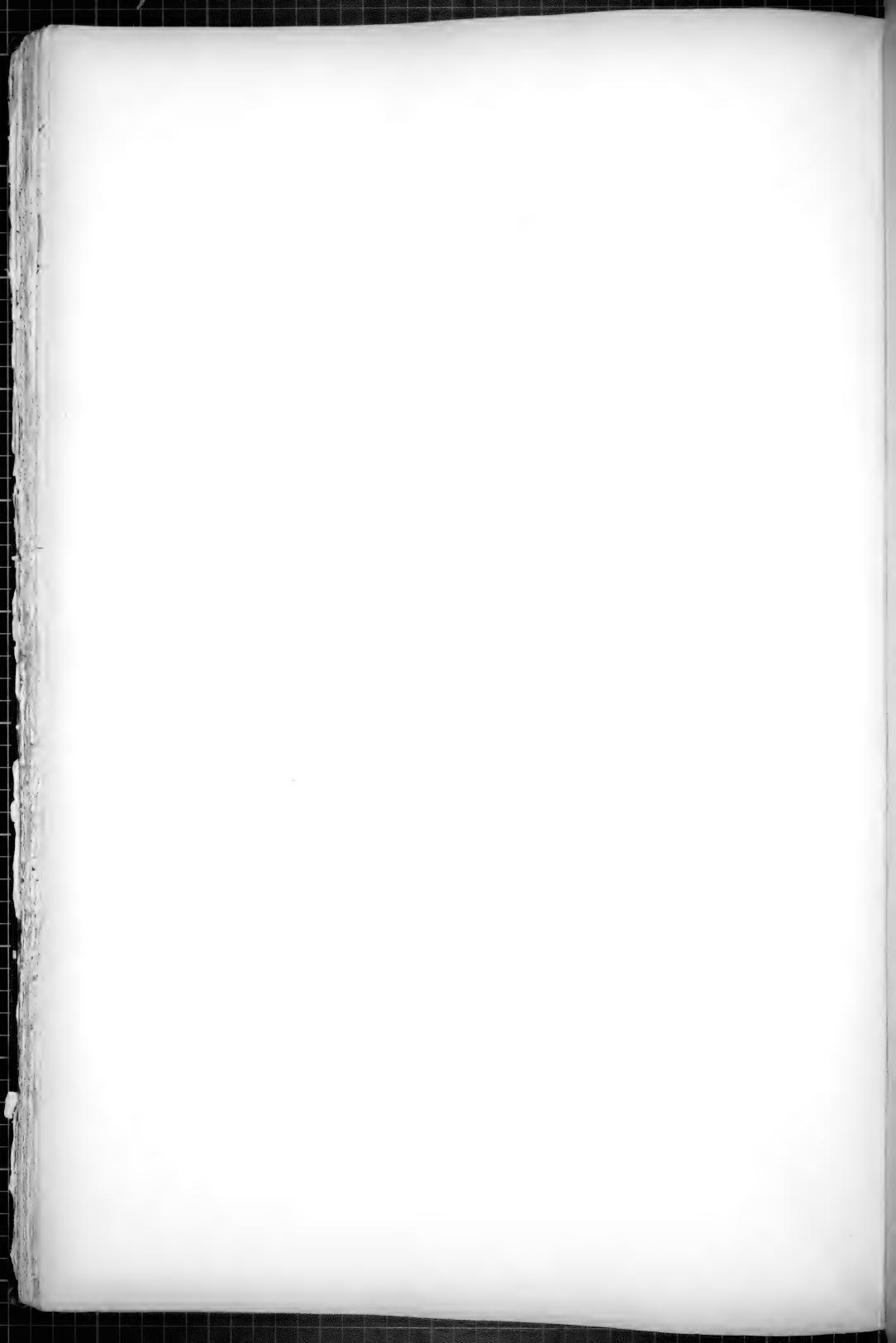


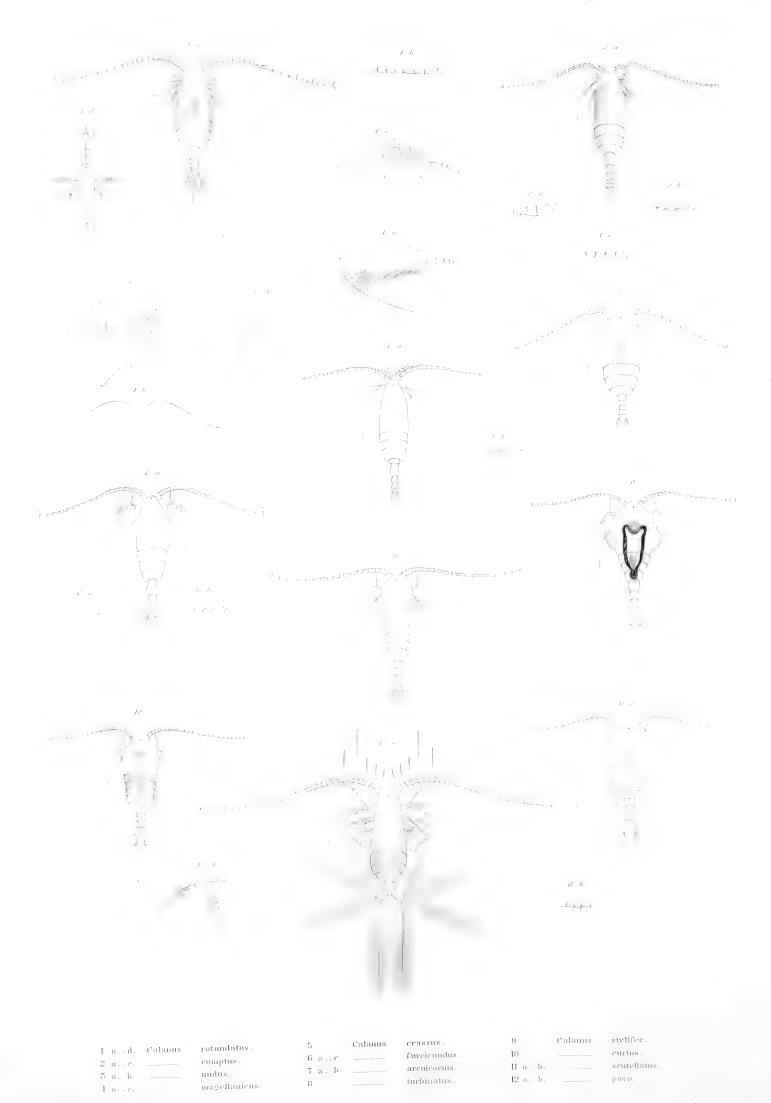
STRUCTURE OF CYCLOPOIDEA: 1-8, body; 9-15, head and eyes; 16-45, anterior antennæ; 44-45, posterior antennæ.





STRUCTURE OF CYCLOPOIDEA: 56-63, mandibles; 64-73, maxillæ, one,pair; 74-81, maxillipeds, one pair; 82-92, 1st pair of legs; 93-100, posterior legs; 101-114, abdomen, and caudal lamellæ; 115, Thyone; 117-120, Notodelphys of Allman,





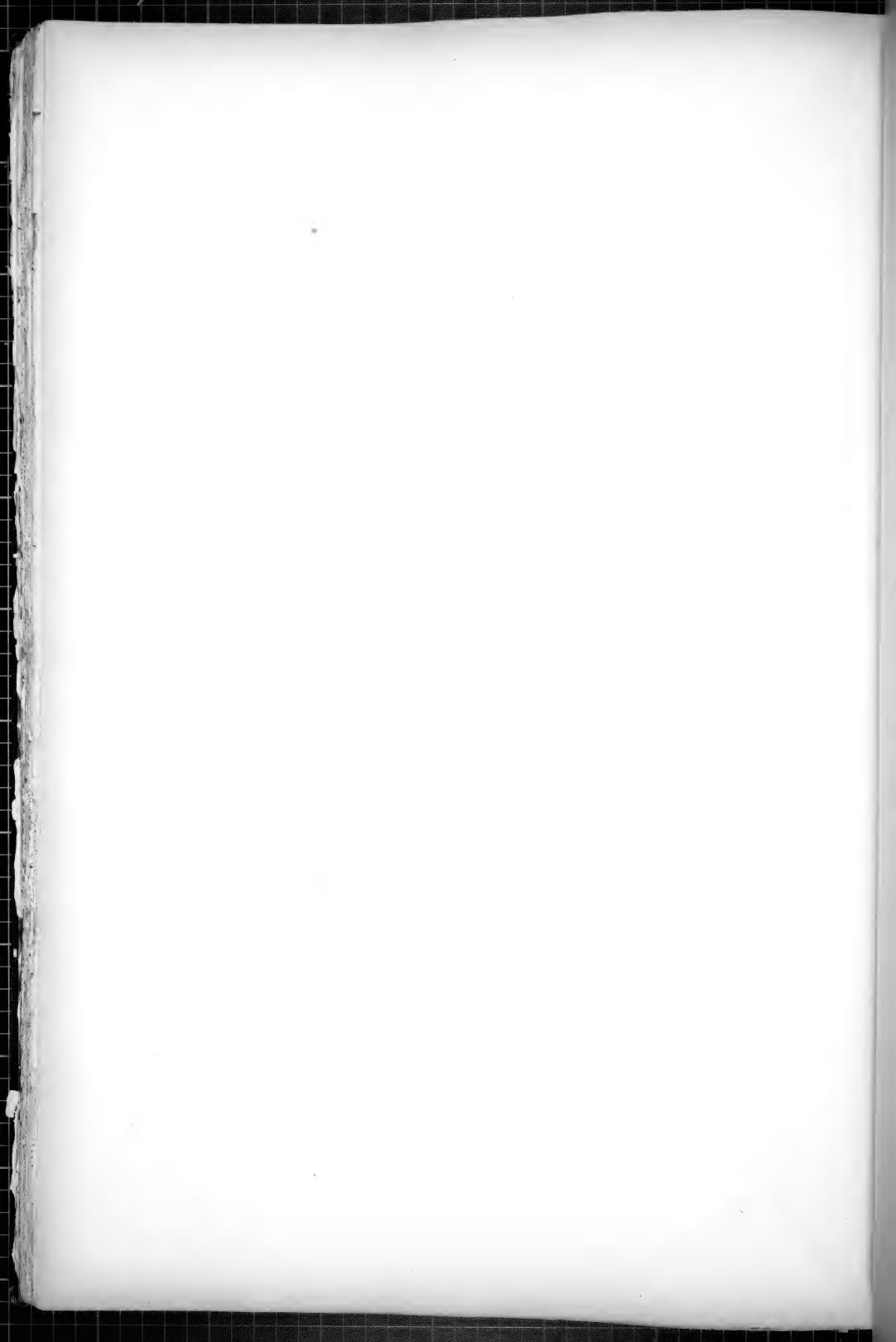
arcuicornis.

turbinatus.

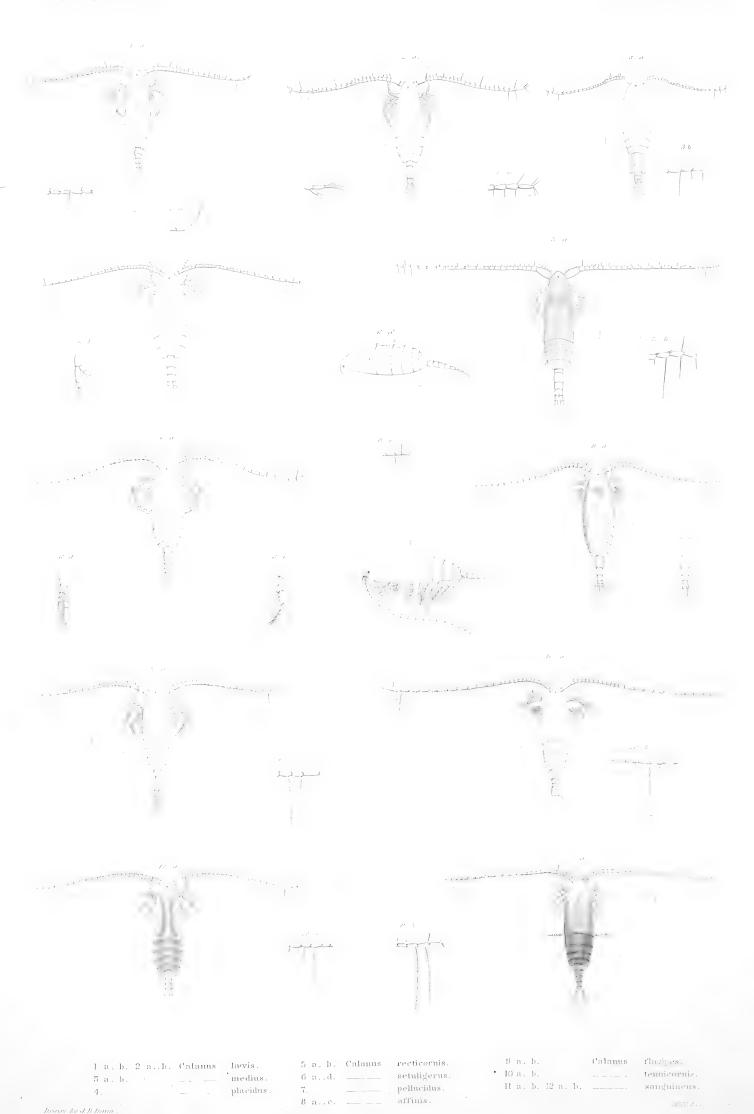
Deawn by J.D. Dana.

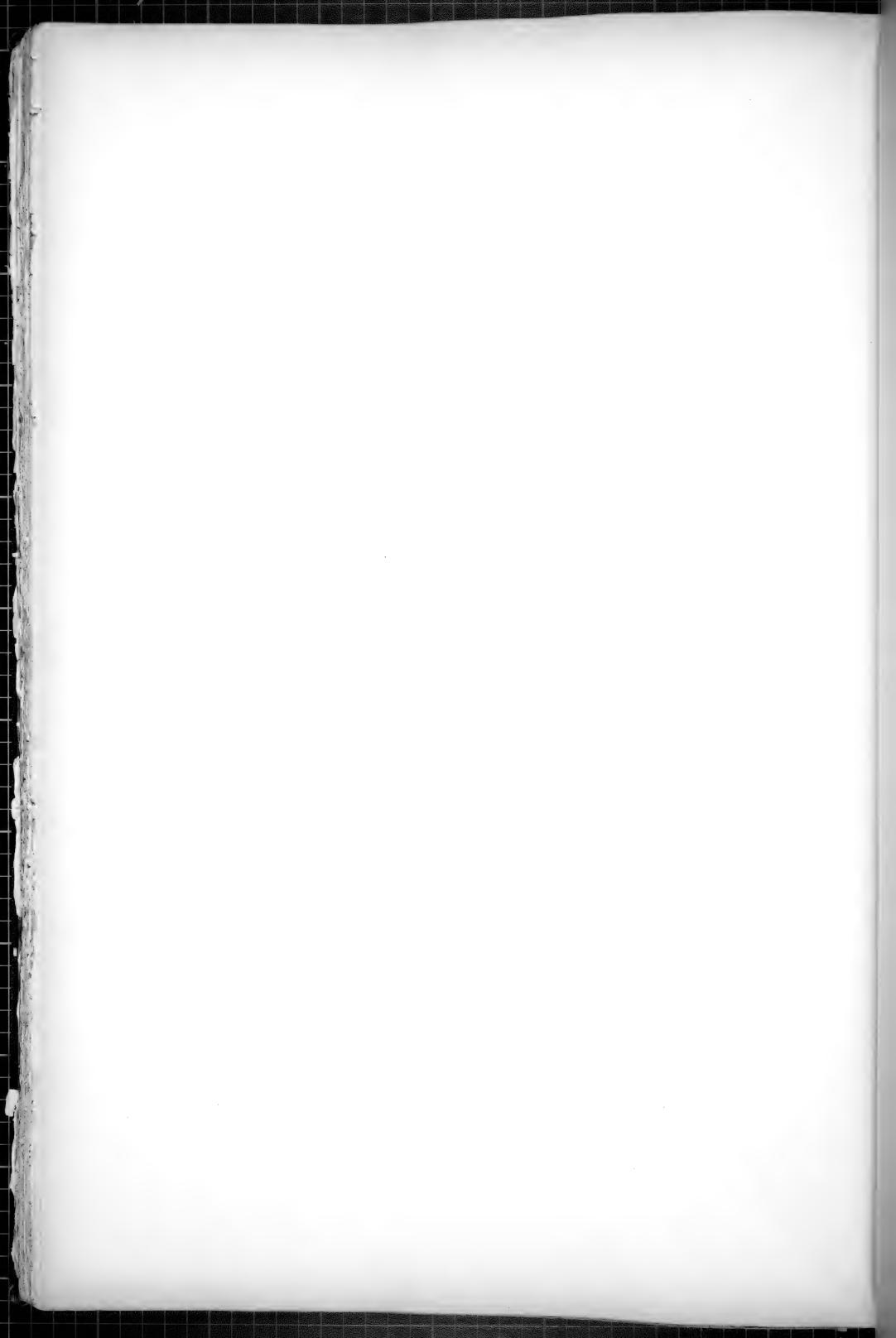
nudus.

magellanicus.

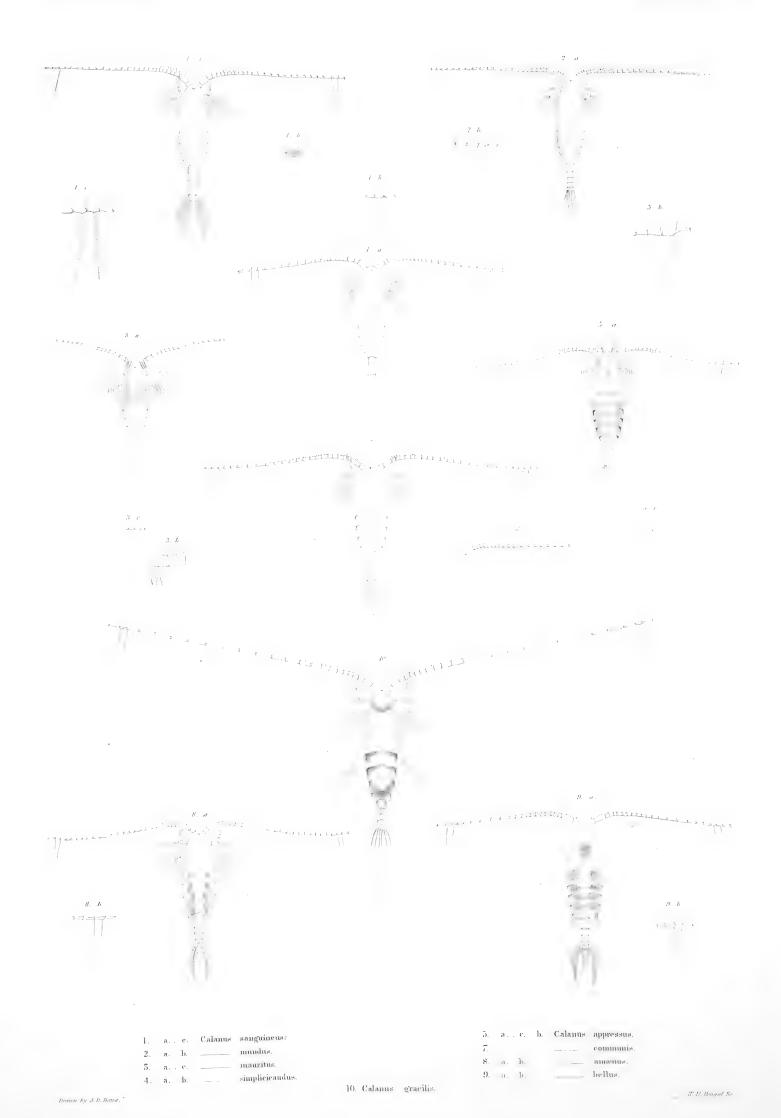


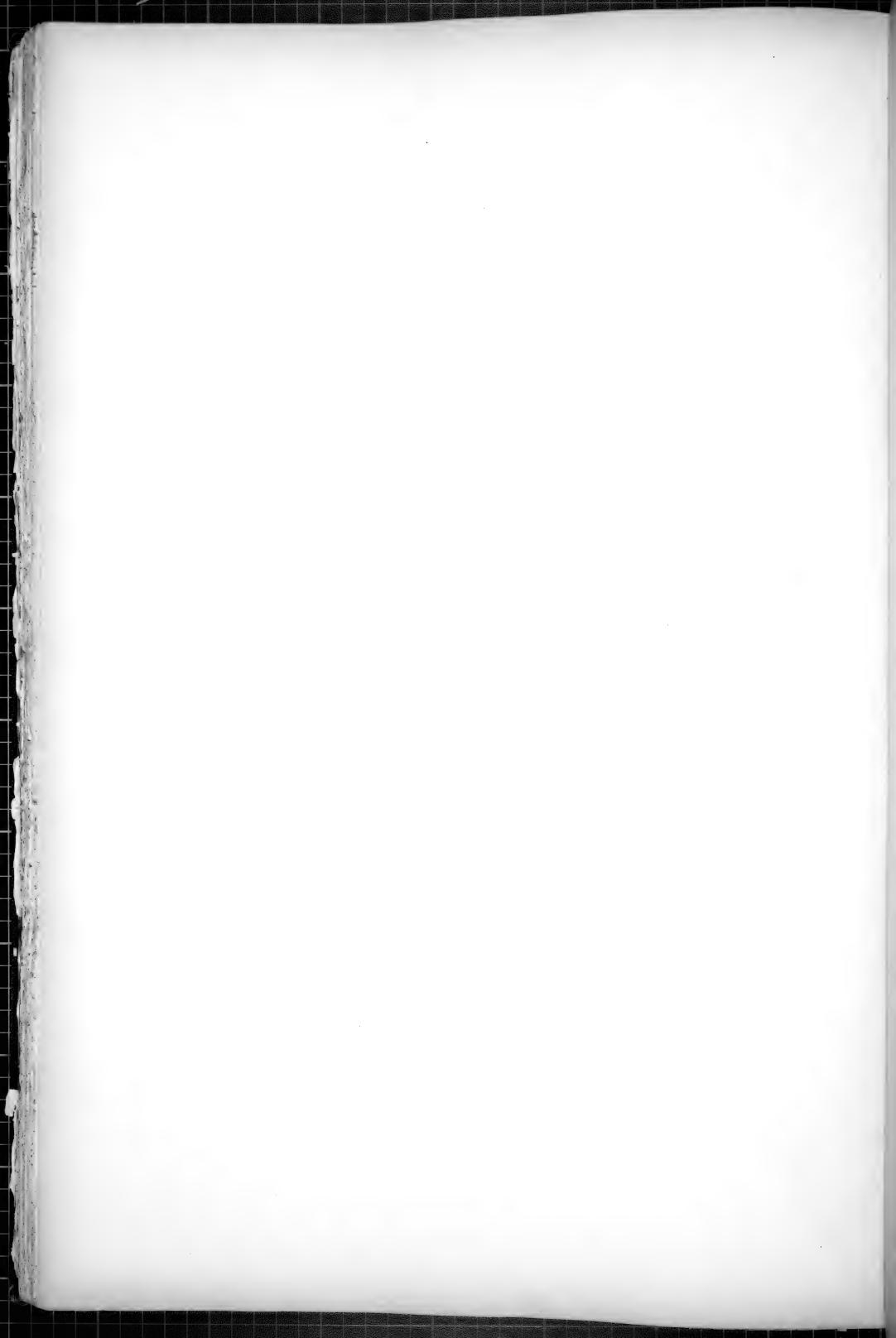
Drawn by A.D. Dana .





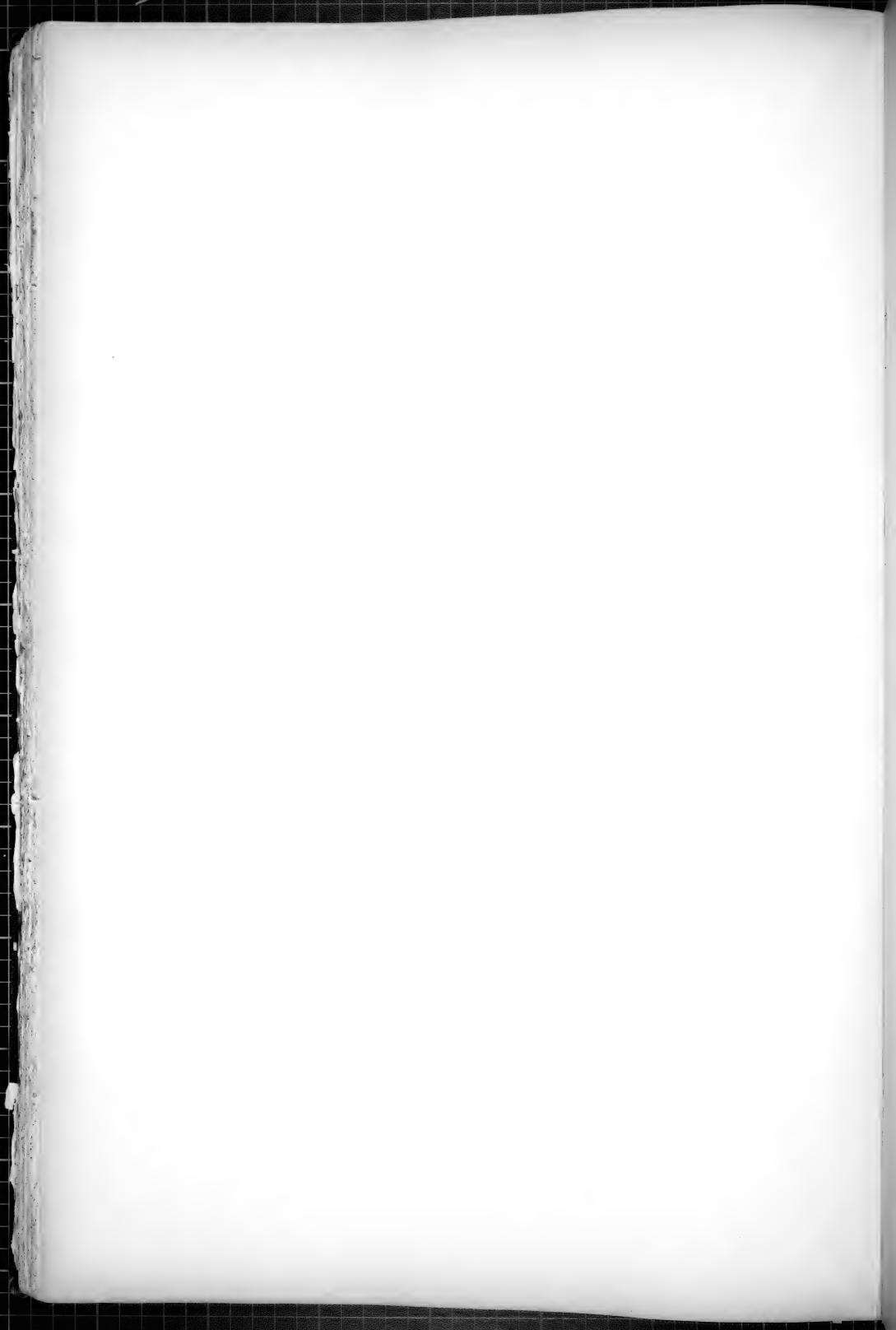
< !

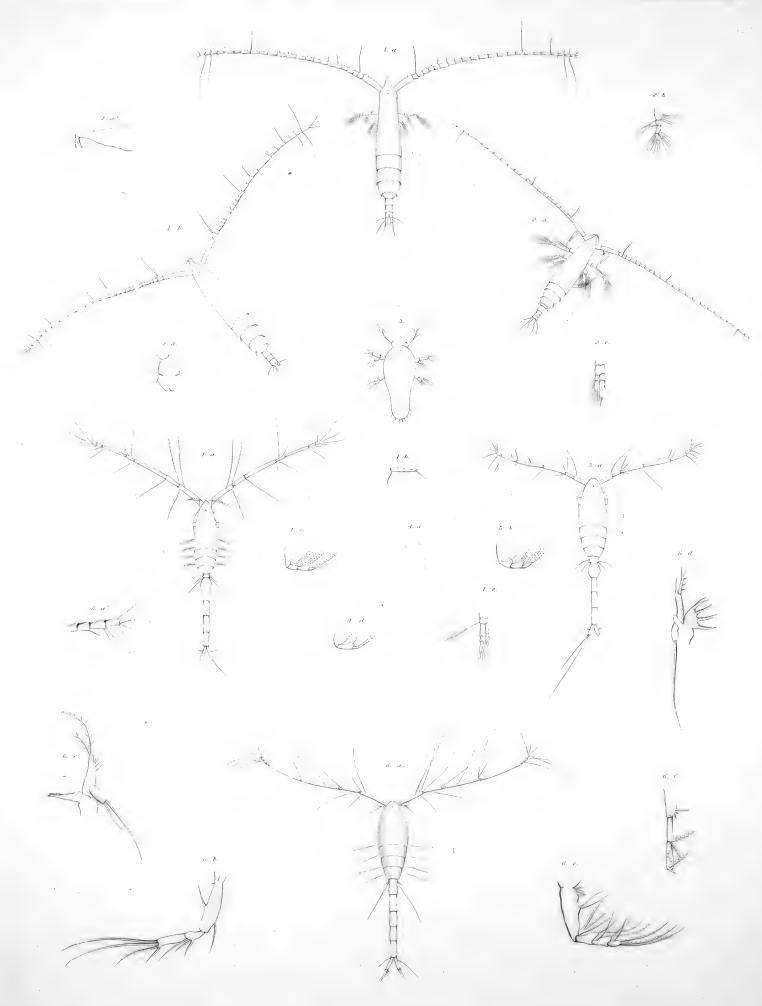






1. a.n. Calanus elongatus.





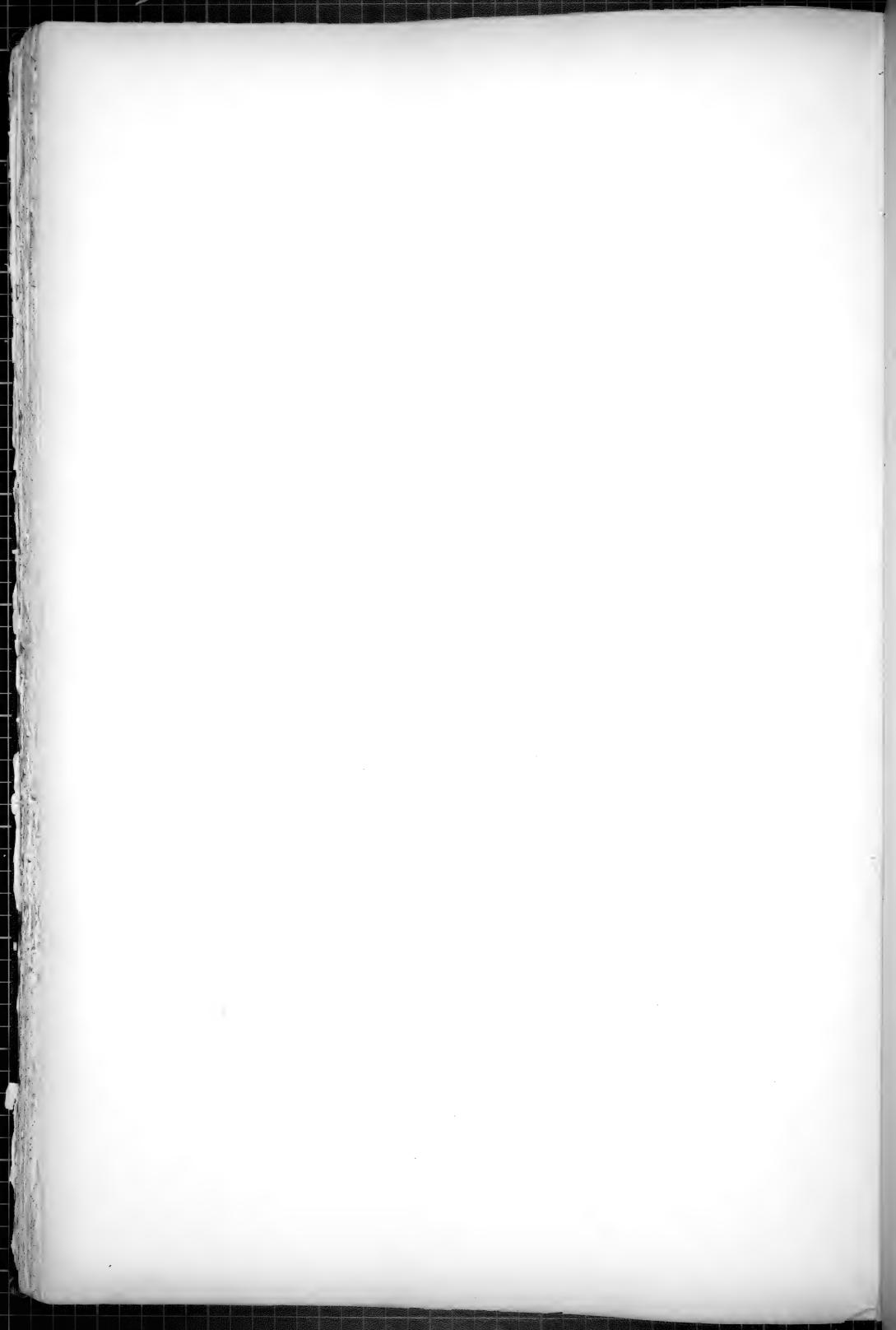
1 a. b. Rhinealanus rostrifrons.
2 a. d. _____ cornutus.
3. Calanus , jun.

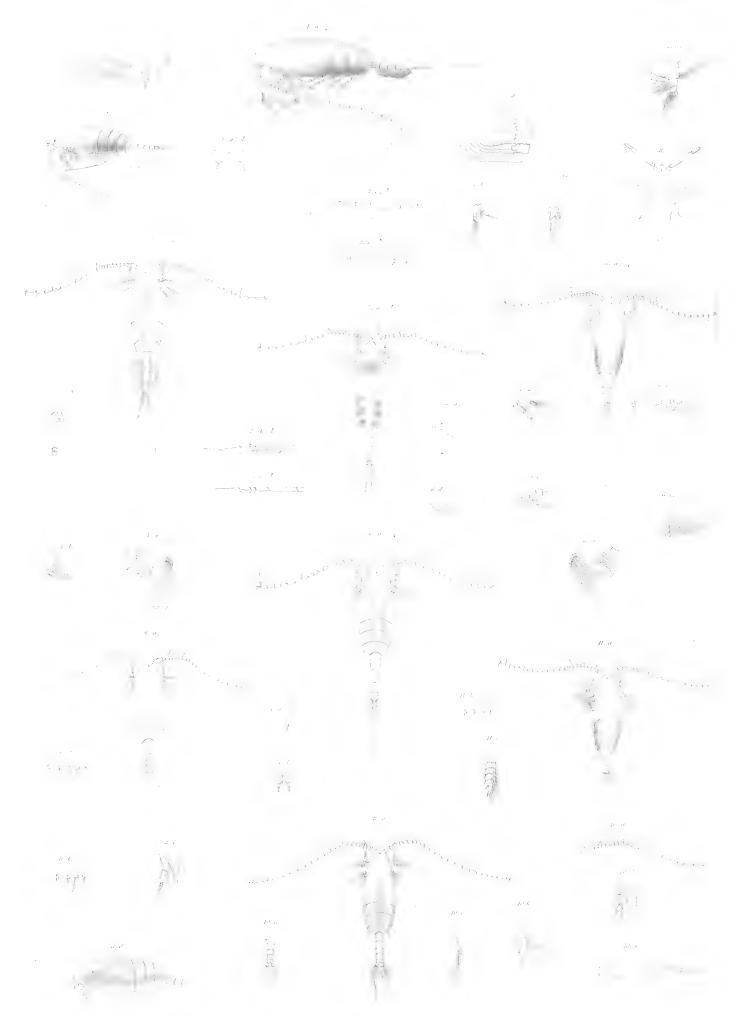
4. a. e. Oithona 5. a. b. _____

plumifera.

6. a. f. _____

abbreviata. seliger.





1 a. d. 2 a. e. Euchata communis.

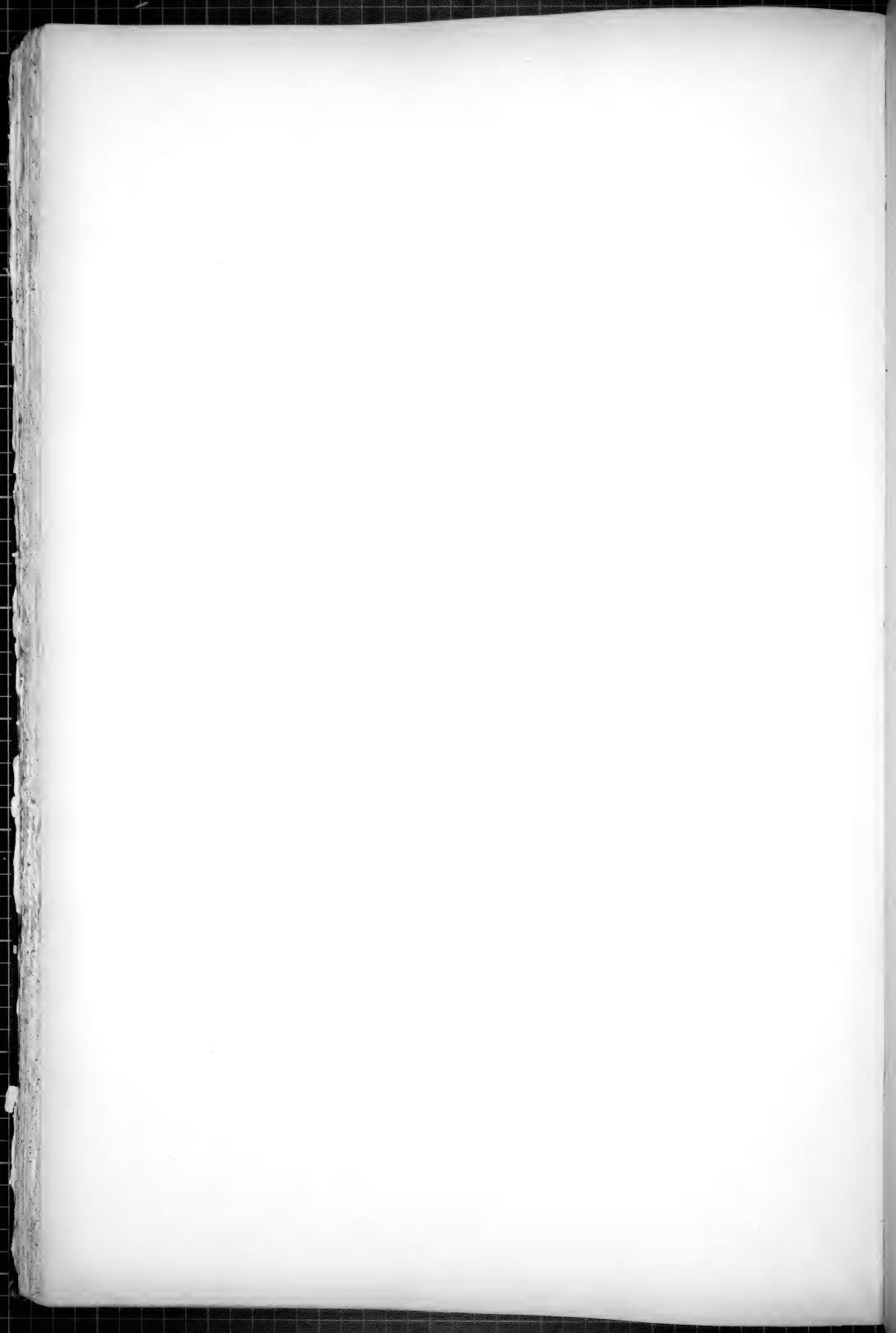
5. Euchata communis, jun. ?

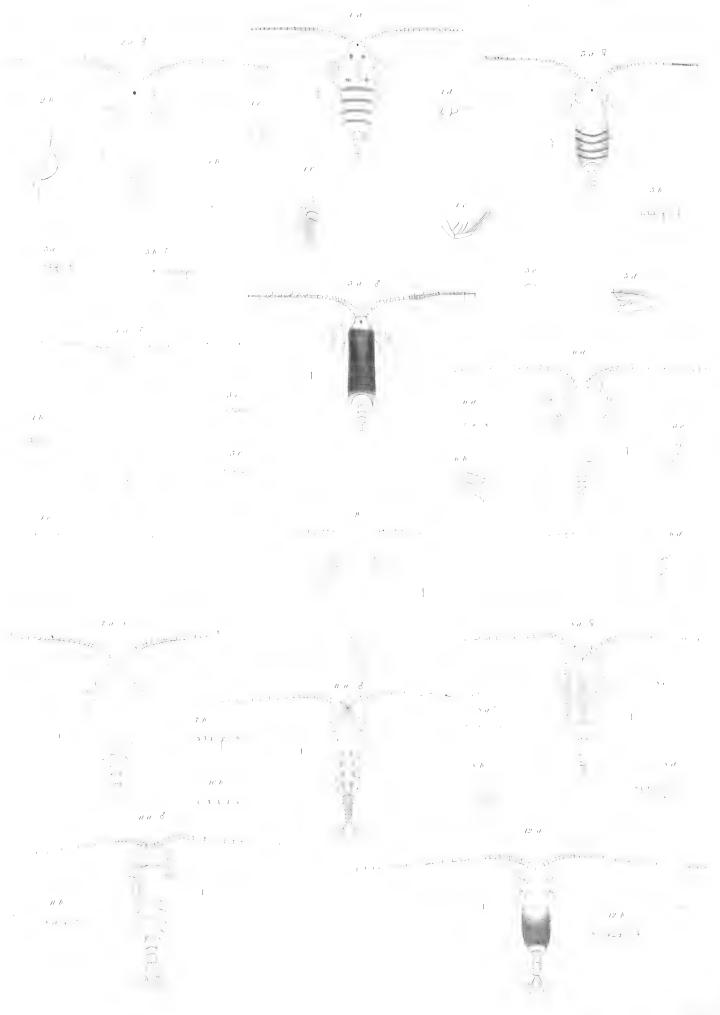
4 a. b. 5 a. e. . concinna.

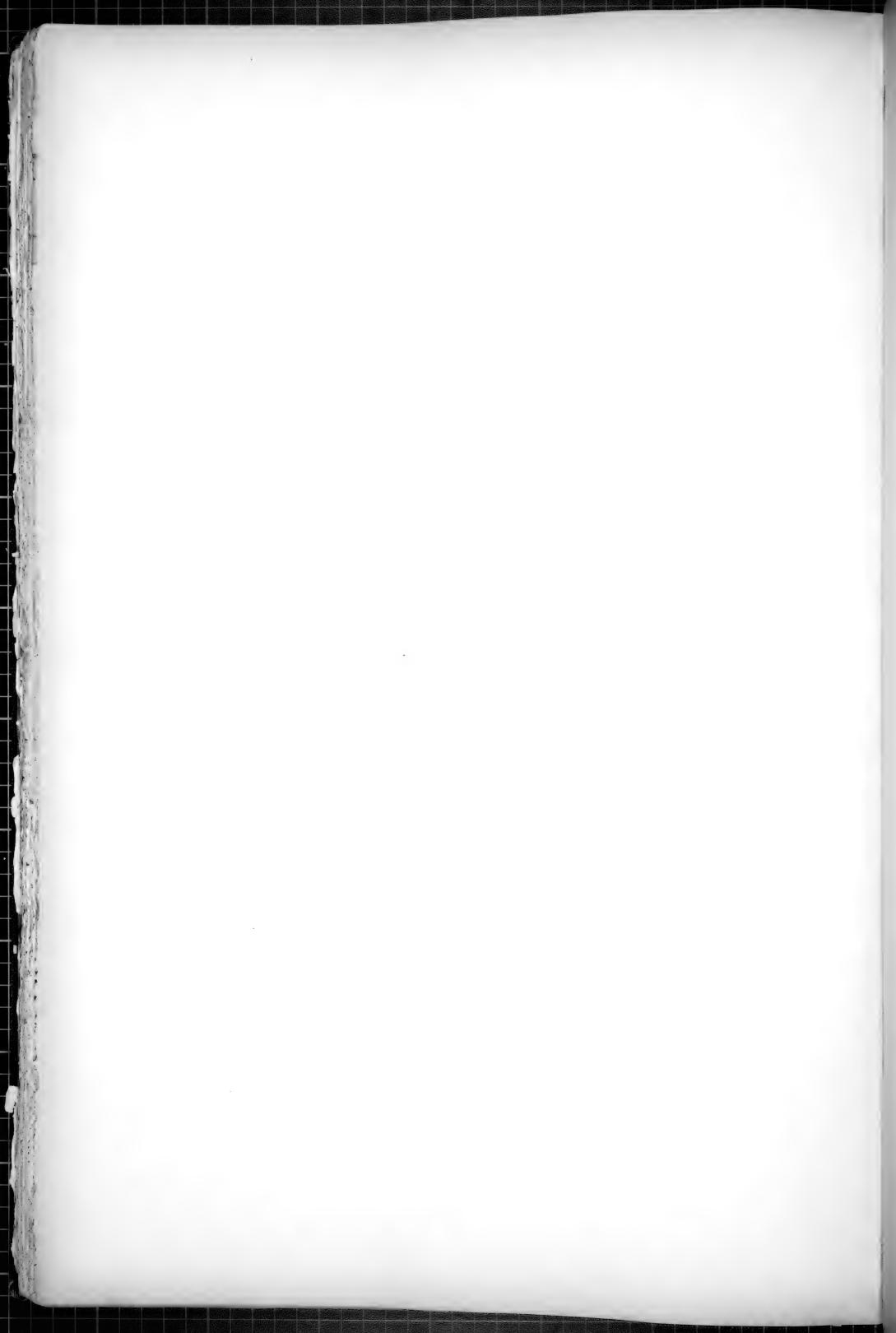
6 a. d. pubescens.

ll a..e. Undina inornata.

7 a.e. Eucheta diadema.
8 a.d. Undina vulgaris.
9 a.h. simplex.



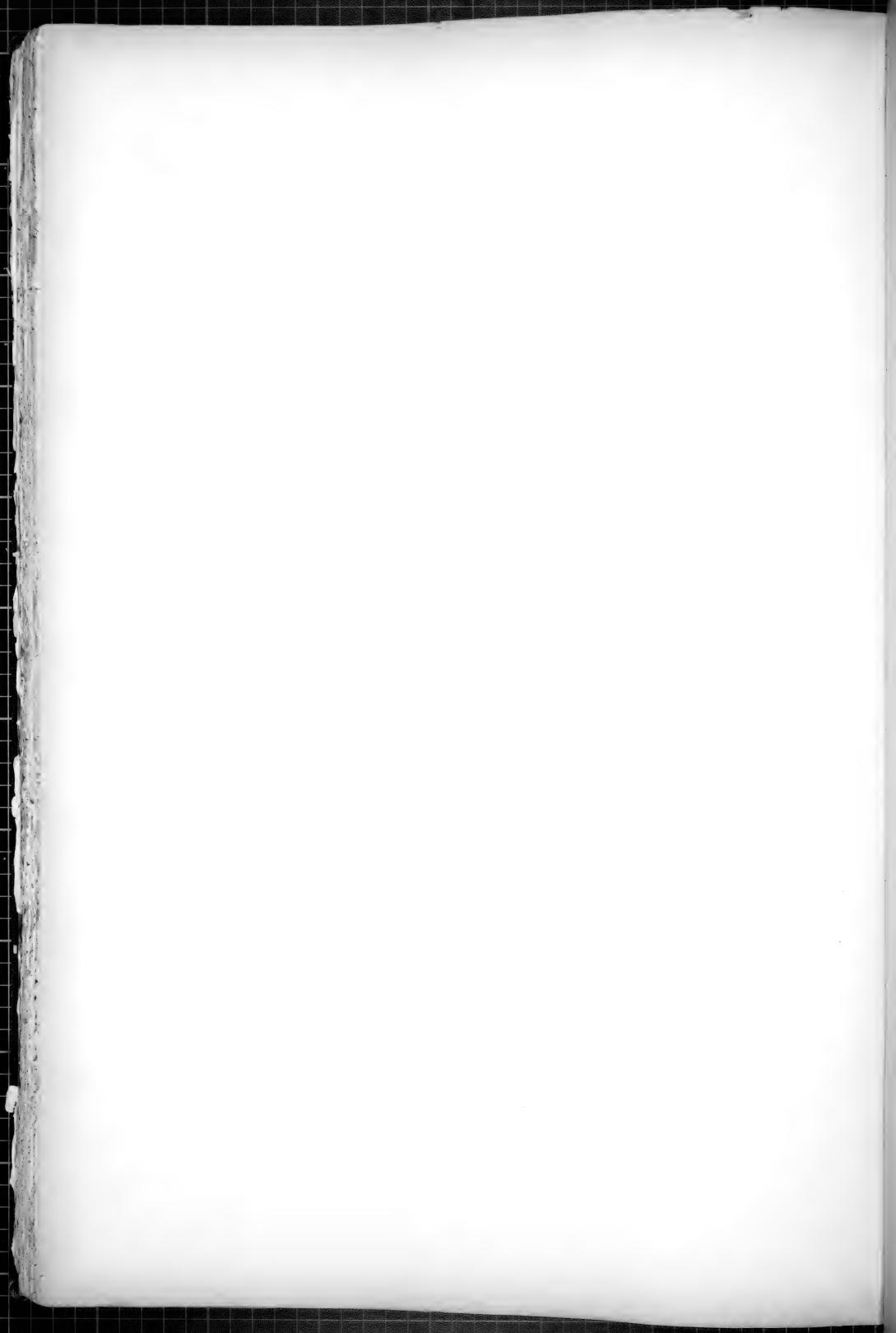


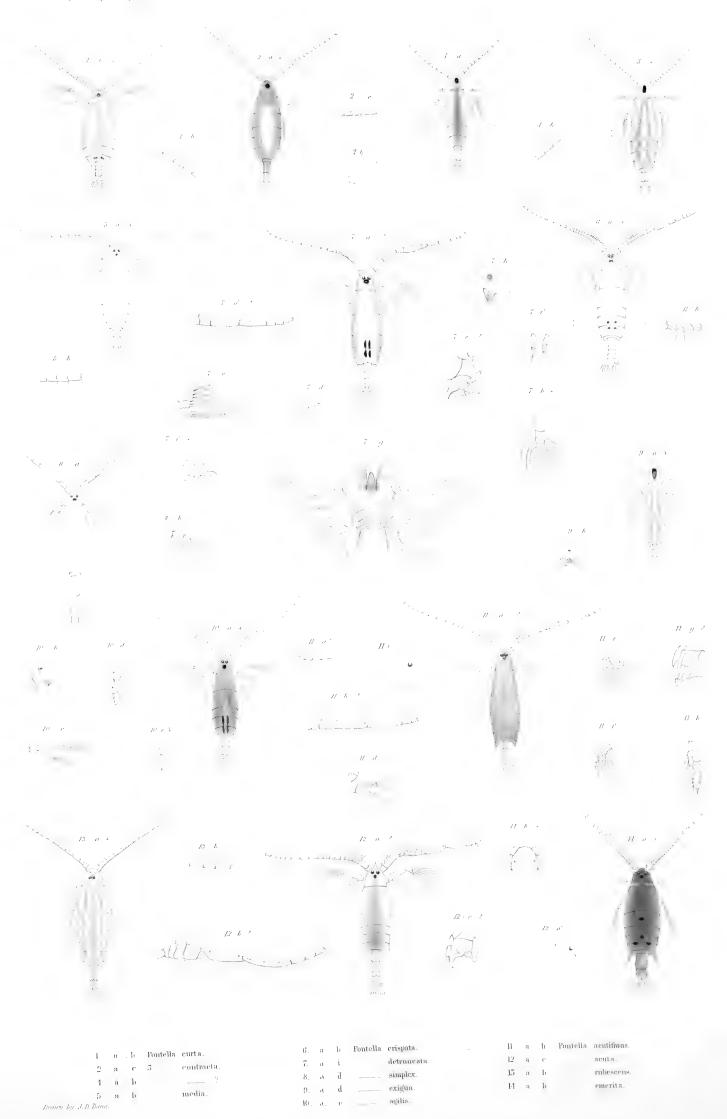


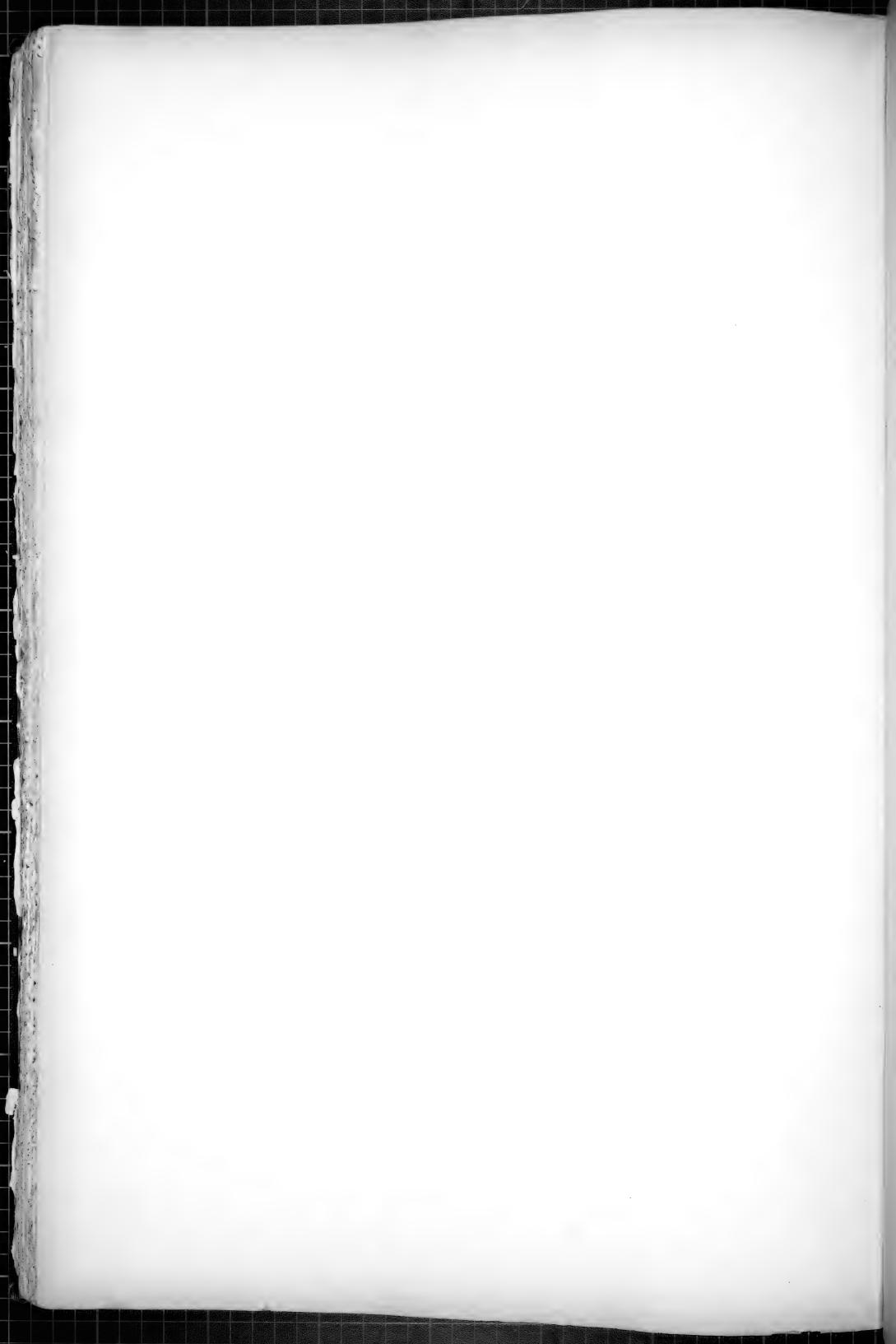


1 a...d. Catopia fircata.
2 a..b. Acartia limpida.
3 a..c. ____ negligens.

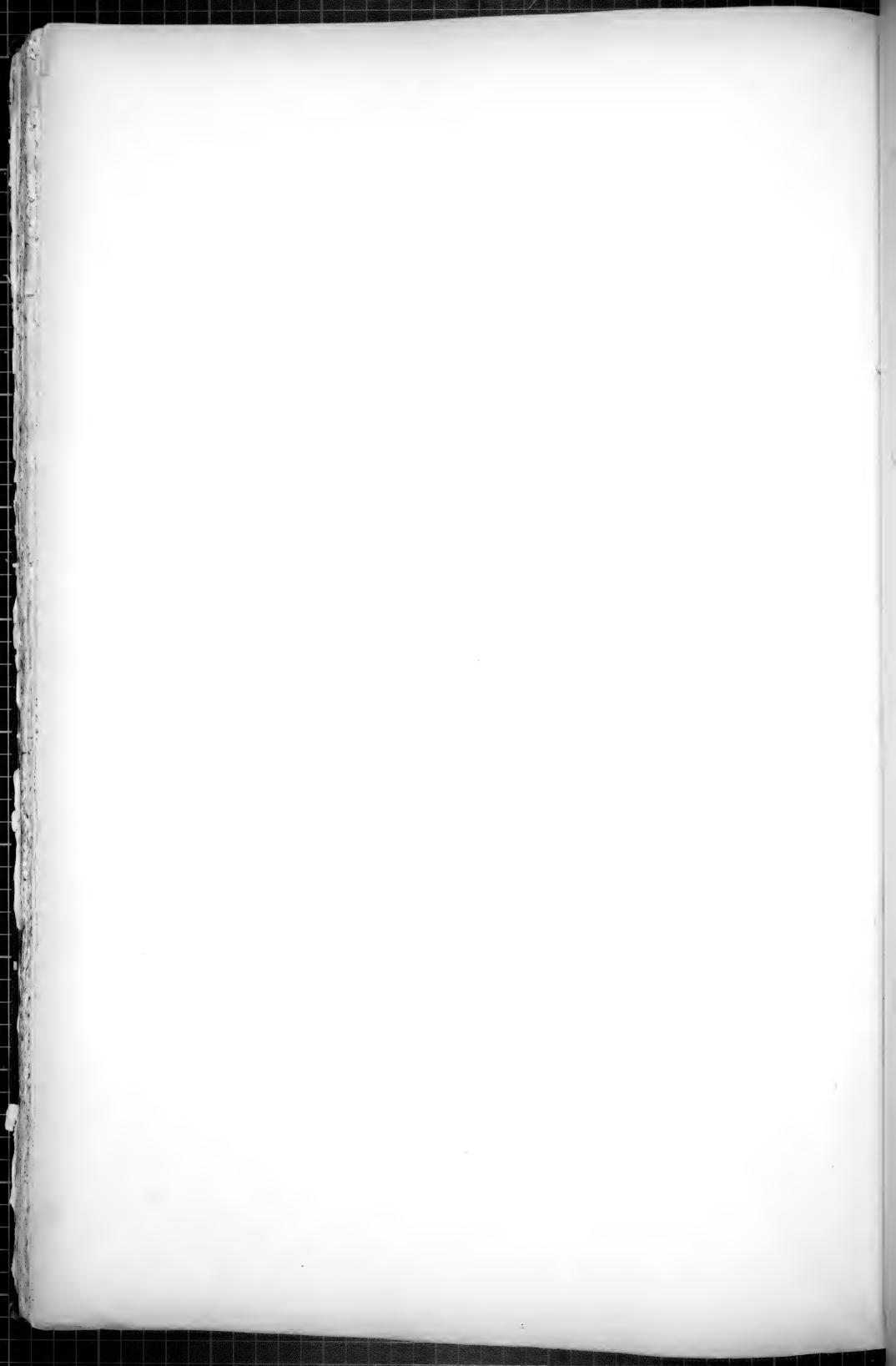
4 a. . g: Acartia tonsa. 7 a. . h. 8a. b. 9a. g: Calanopia brachiata. 5 a. . c _____ laxa, 10 a. . . d. Pontella plumata. 6 a. . b. Calanopia elliptica. 11 a. b. 12 a. b. , turgida.

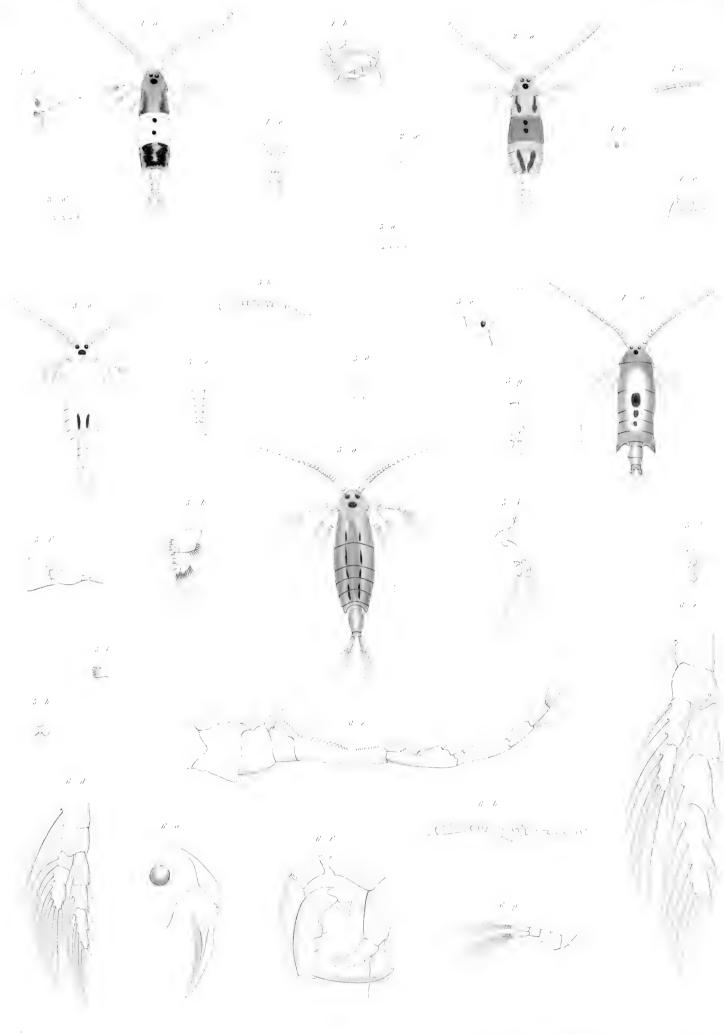






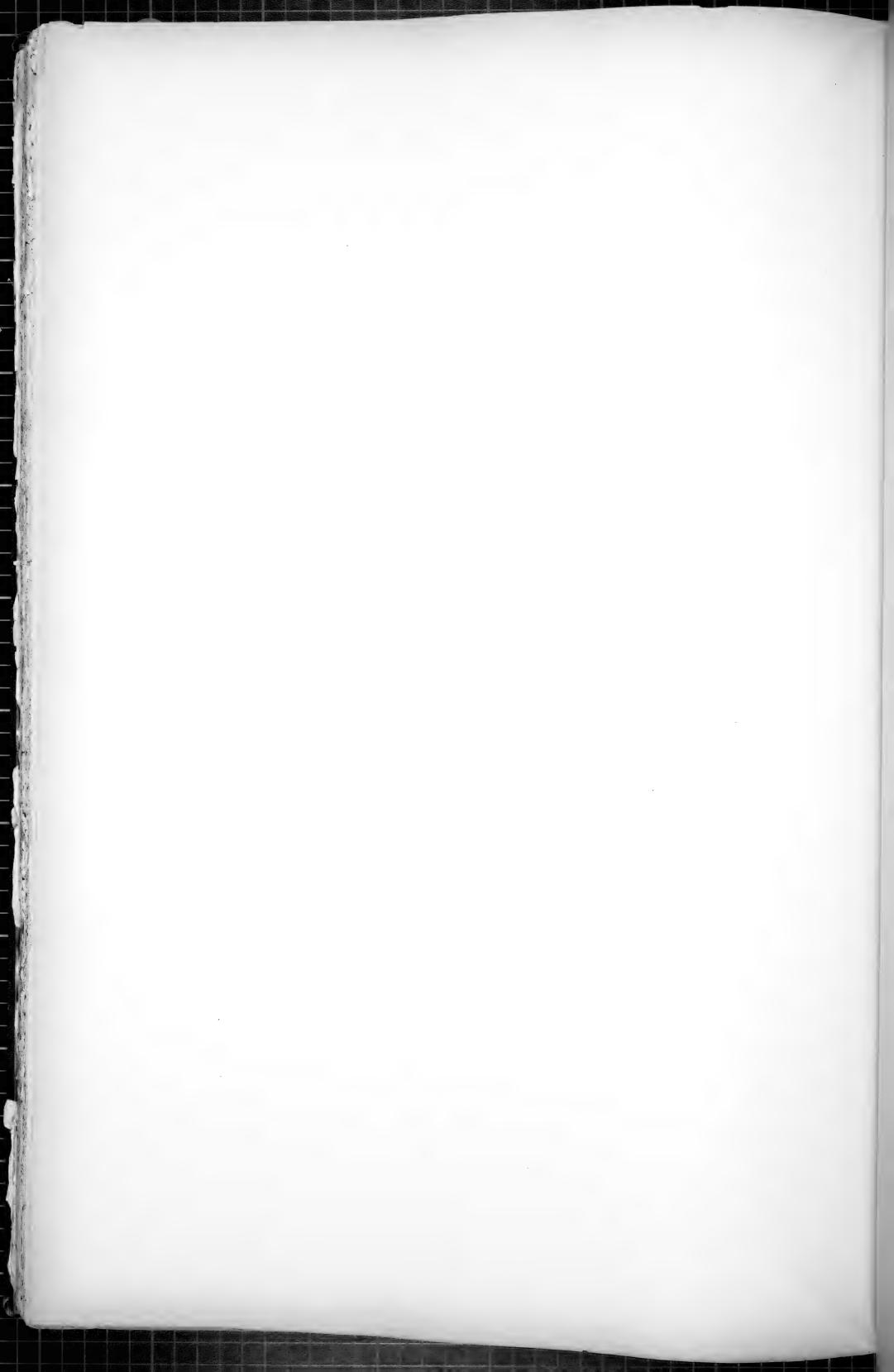


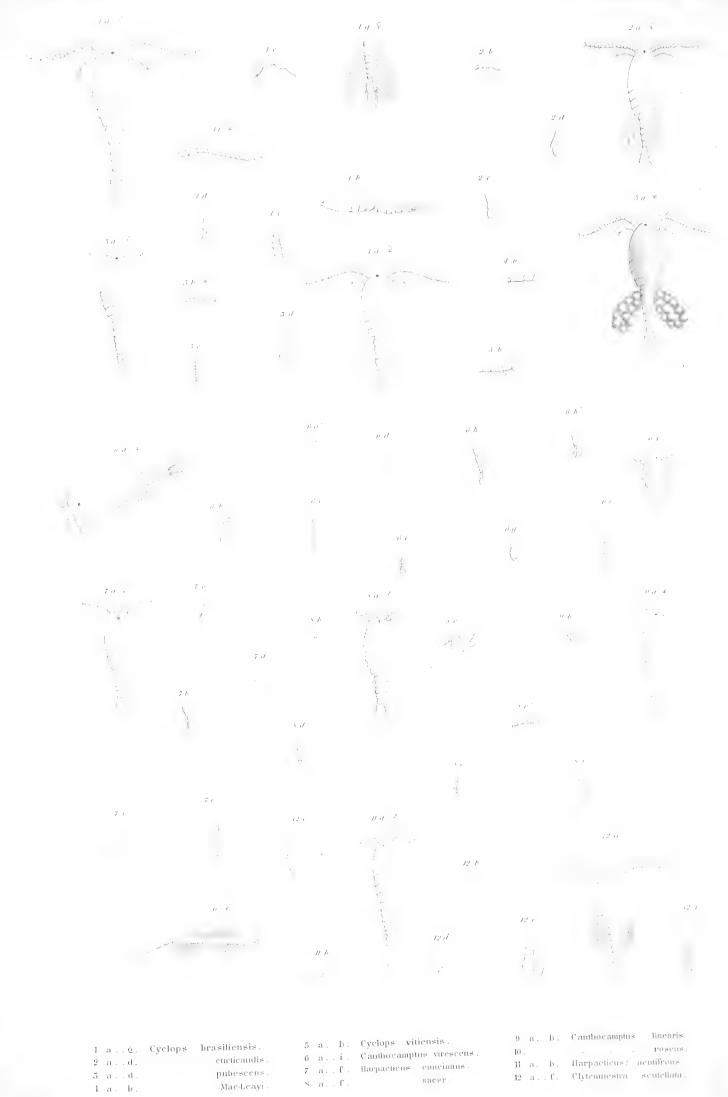




1 a. c. Poutella speciosa
2 a. a. speciosa,var formosa
3 a. a. detonsa?

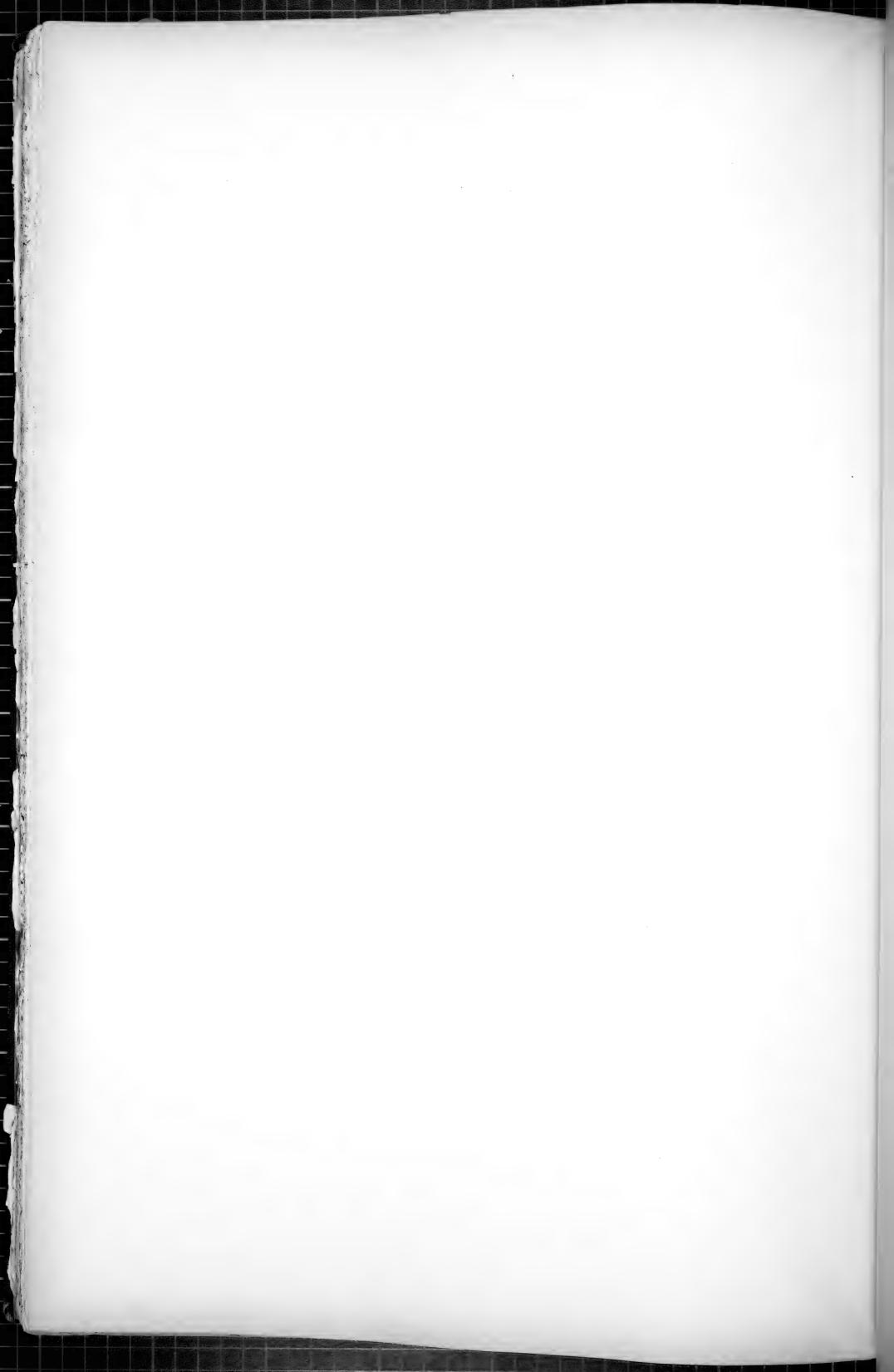
1 a. c. Poutella princeps
5 a. l fera
6 a. g' valida





4 a. b.

Mac-Leayi





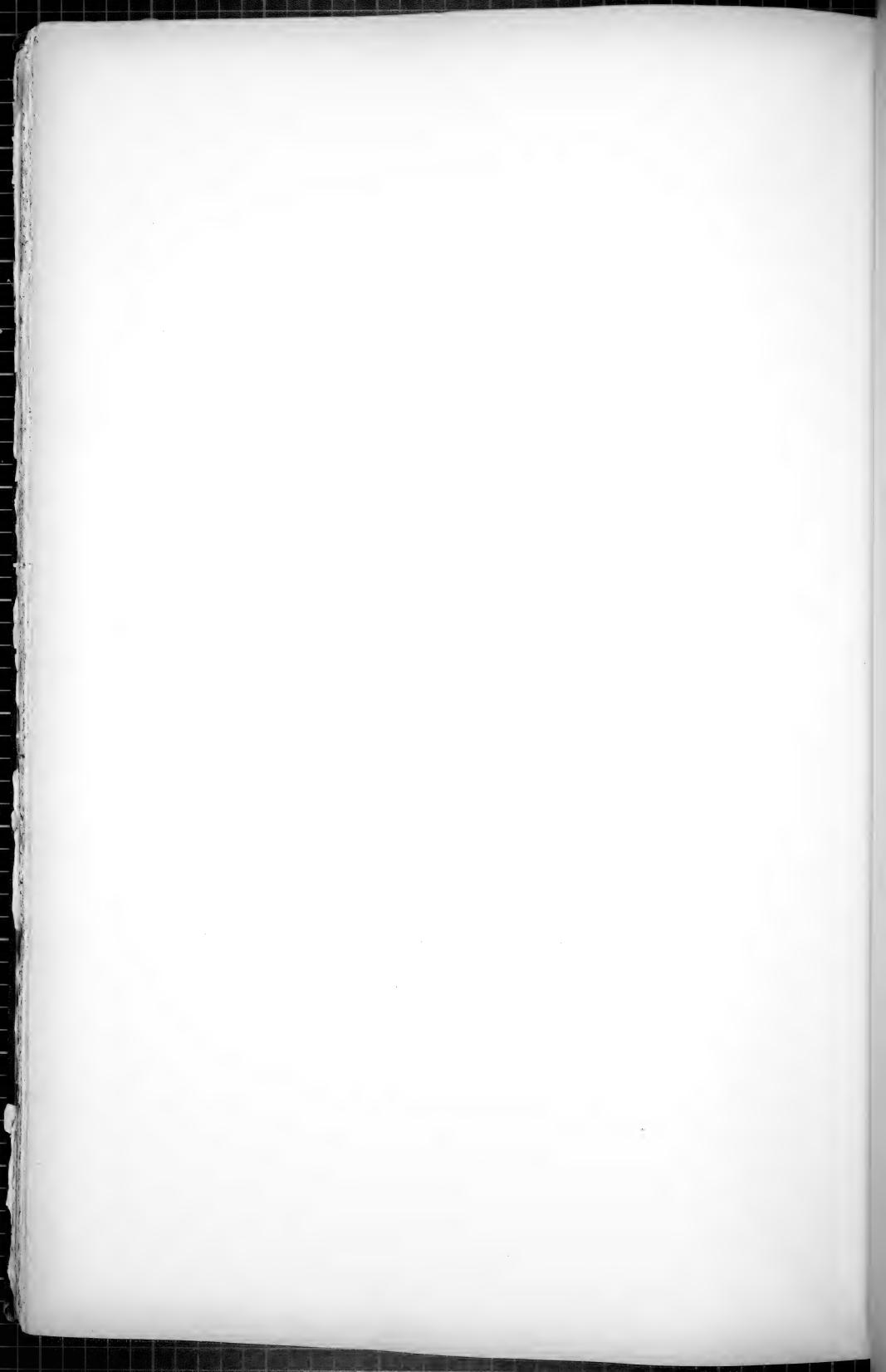
1 a. k. Setella tennicornis:Han.jun. 2 a. a. _ _ longicanda.

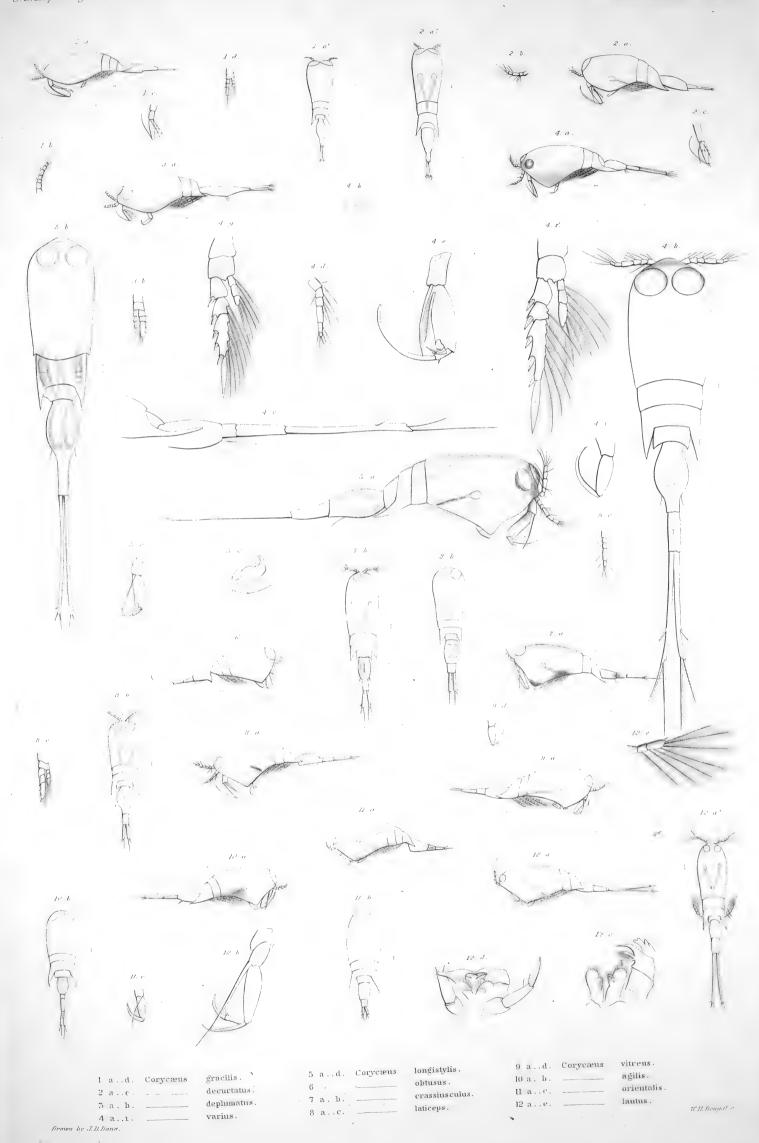
Periota by Alebana

5 a ..g. Setella aciculus.

3 a...g. Setella gracifis. 4 a...e. . crassicomis.

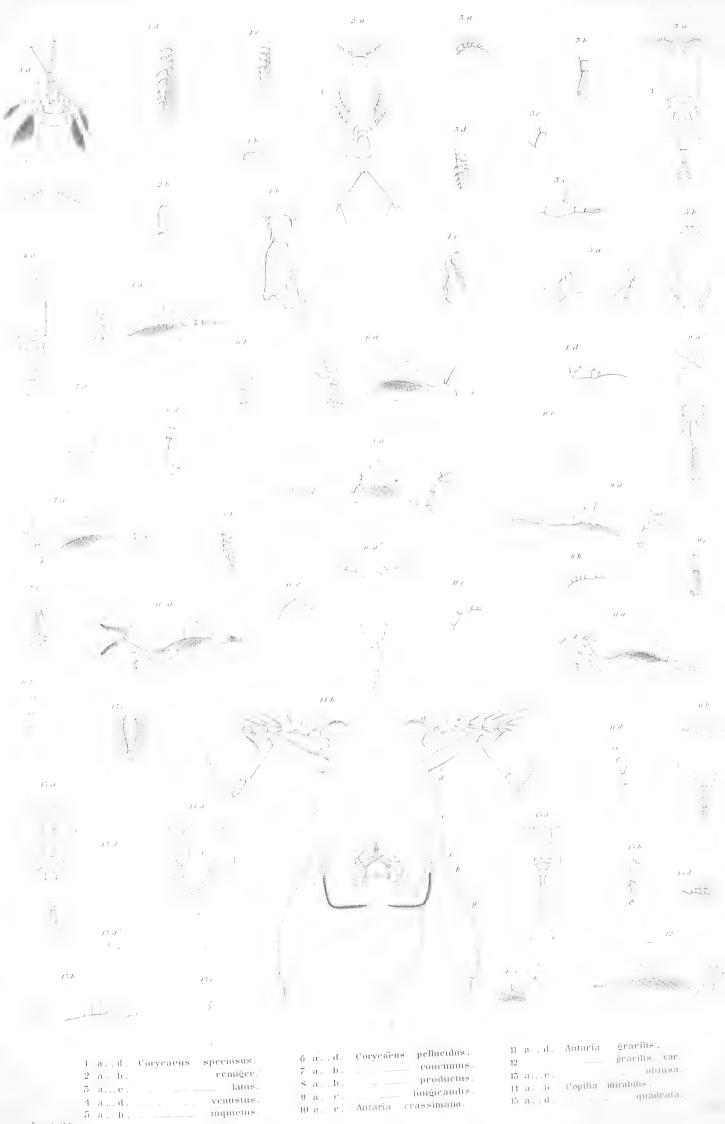
Buckeye



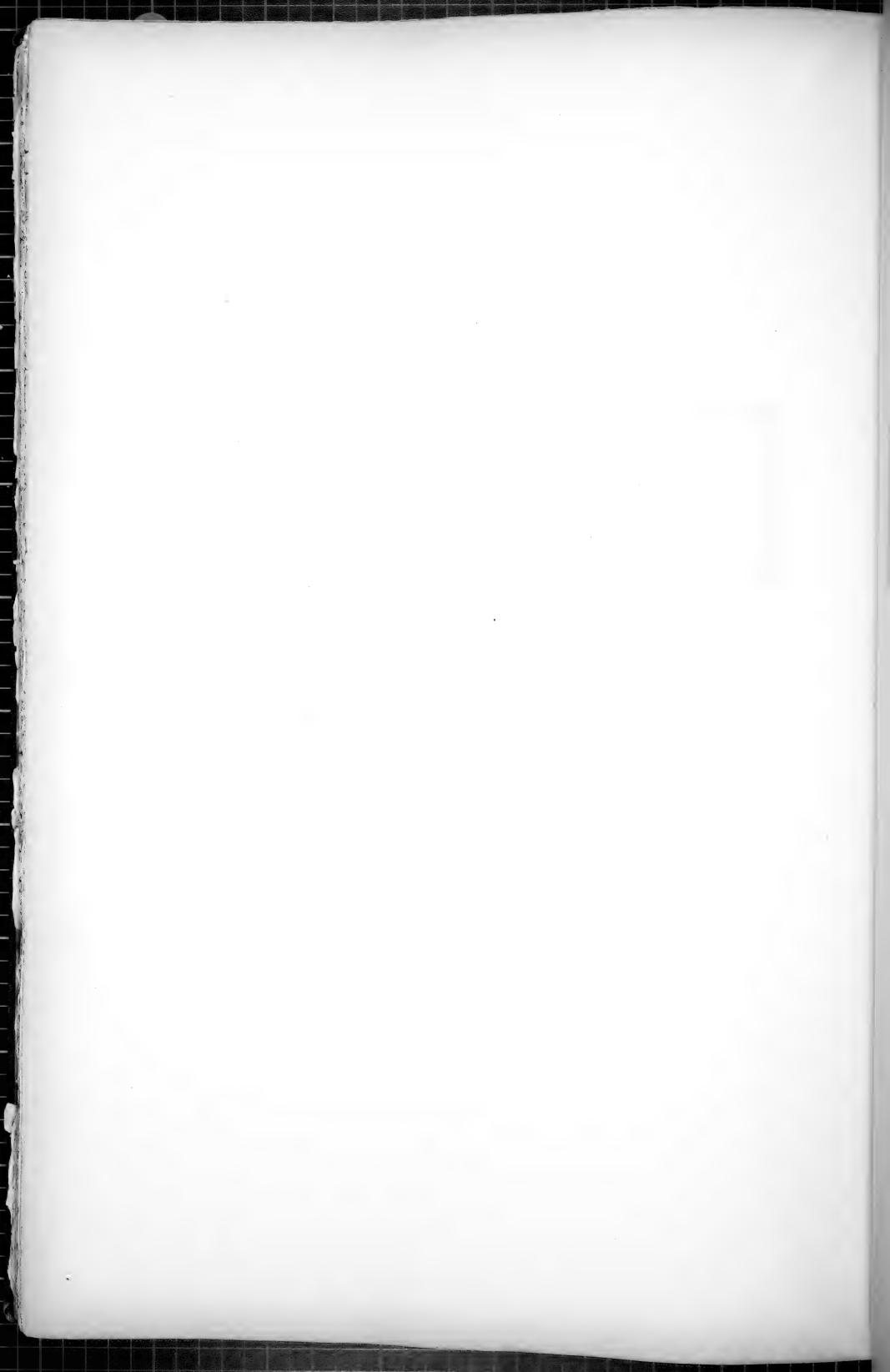




quadrata.

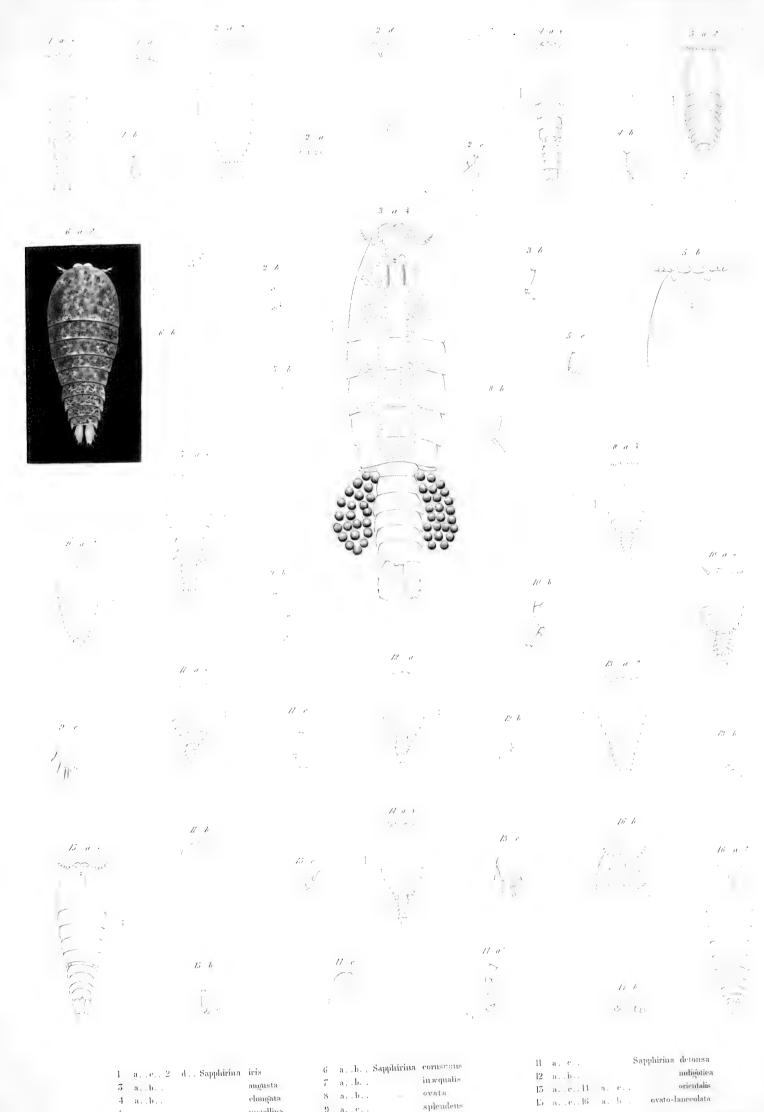


4 a.d. venustus. 5 a.b. inquietus.



orientalis

ovato-lanceolata



7 a.b. in aqualis

8 a.b..

9 a.e..

10 a.b.

ovata

splendens

ovalis

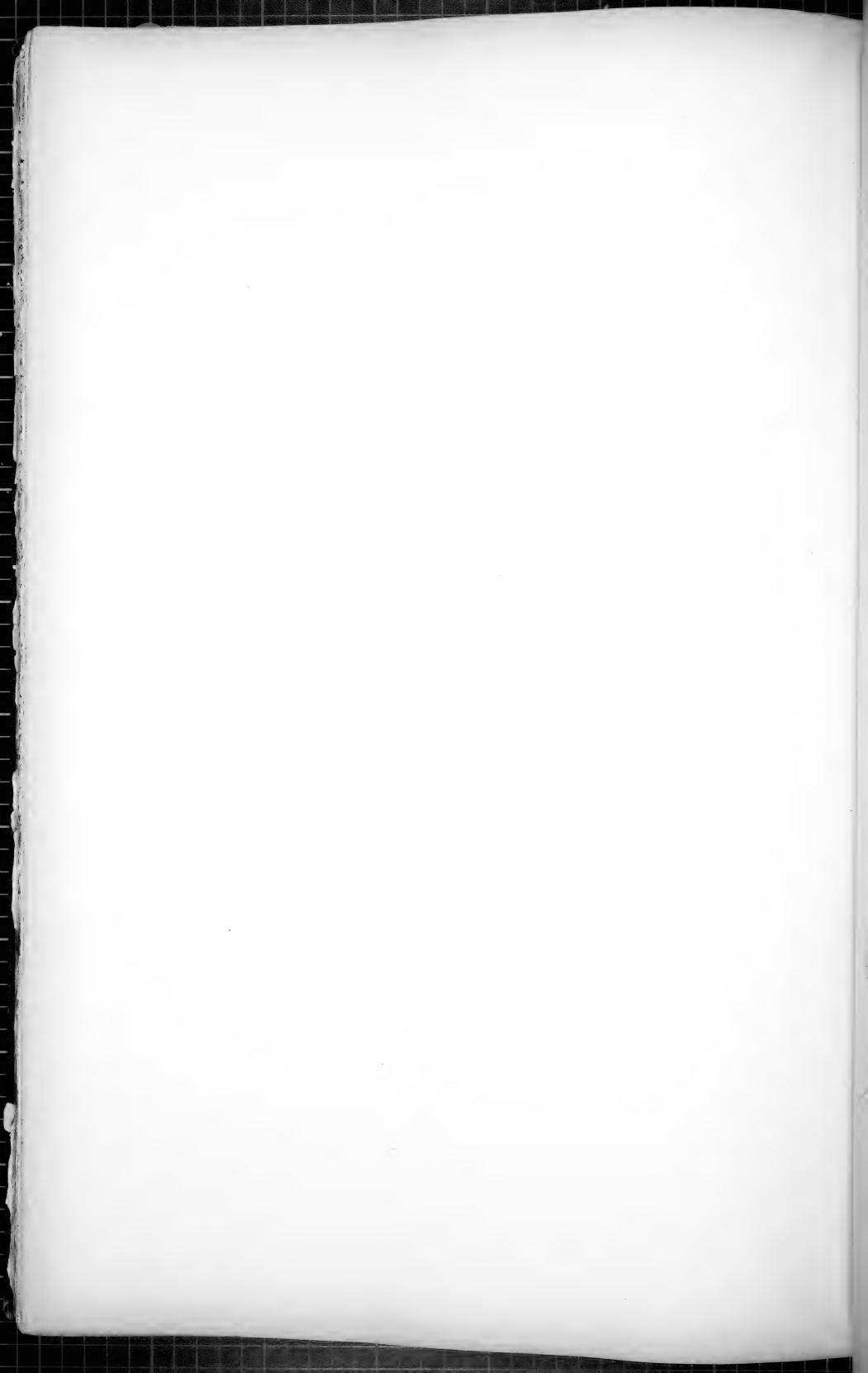
5 a. .e. .

4 a..b..

3 a..h.. angusta

elongata

metallina





1	13	ı'	2	a •	₫	Sapphirina
.,	it	d				,
.1	it	1.				

5 a . c 6 a . . c. 7 a . a gemma .
hella .
opalina .
versicolor .
tenella

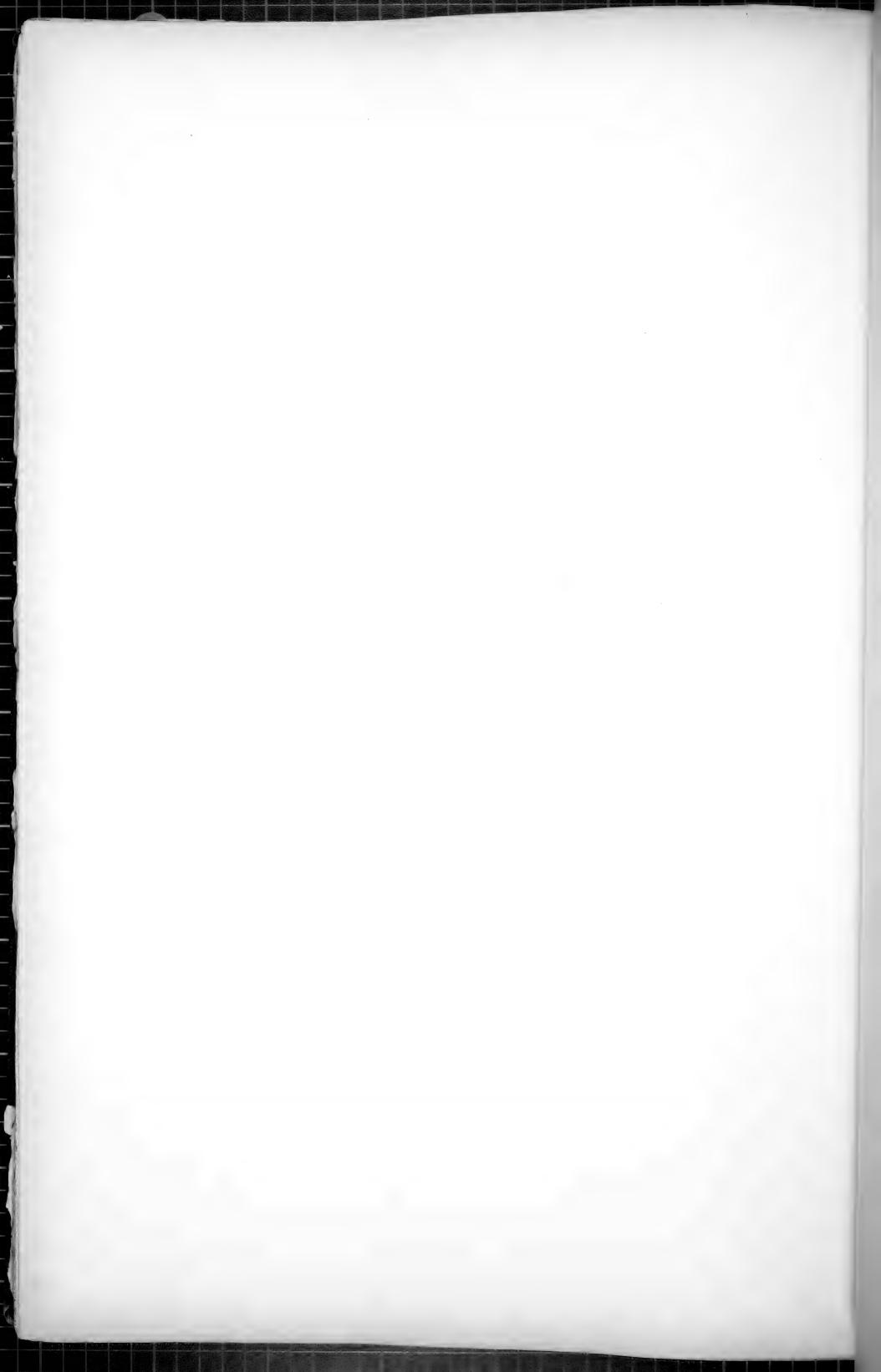
8 a. b. Sapphirina .

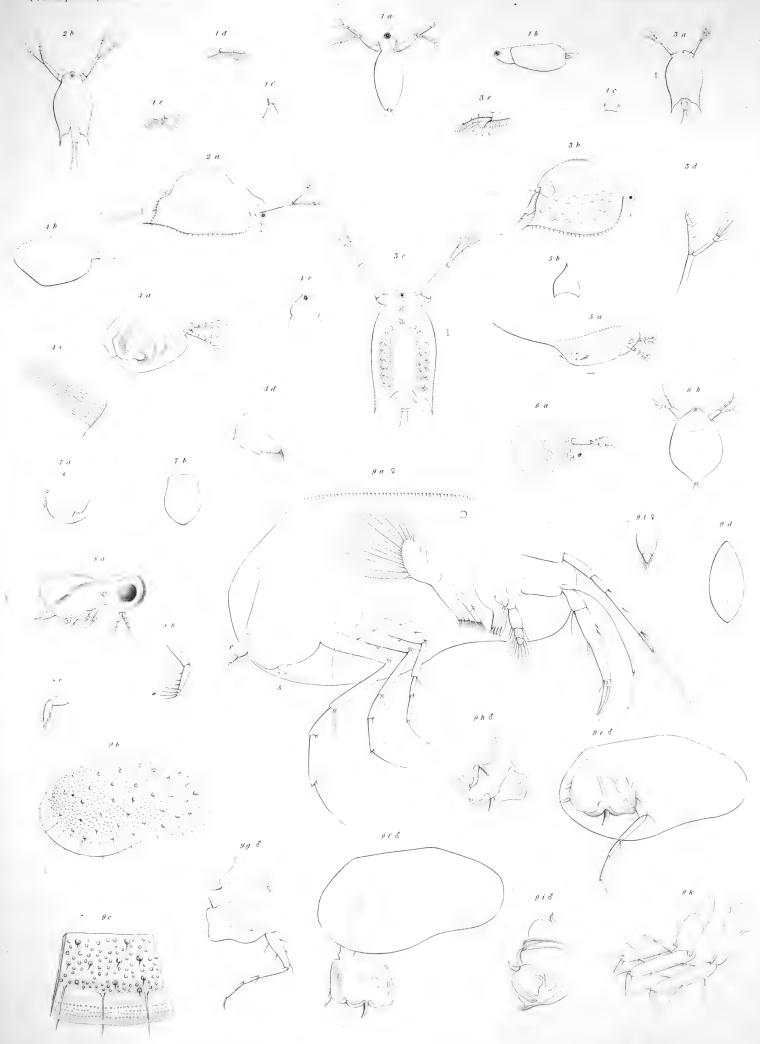
9 ... ohesa .

10 ___ obtusa

11 . Miracia efferata

12 a . c . _ _ gracilis .

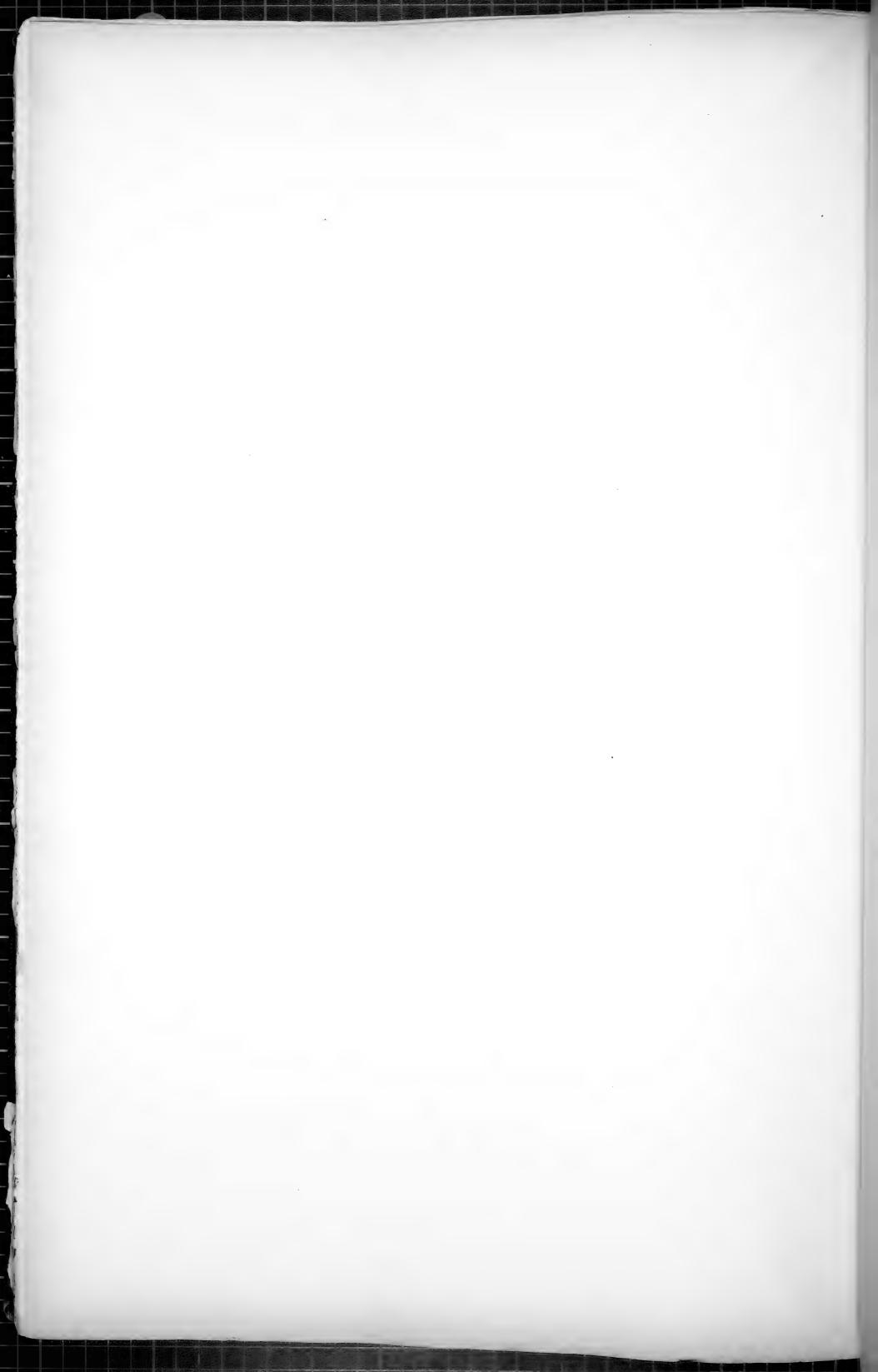




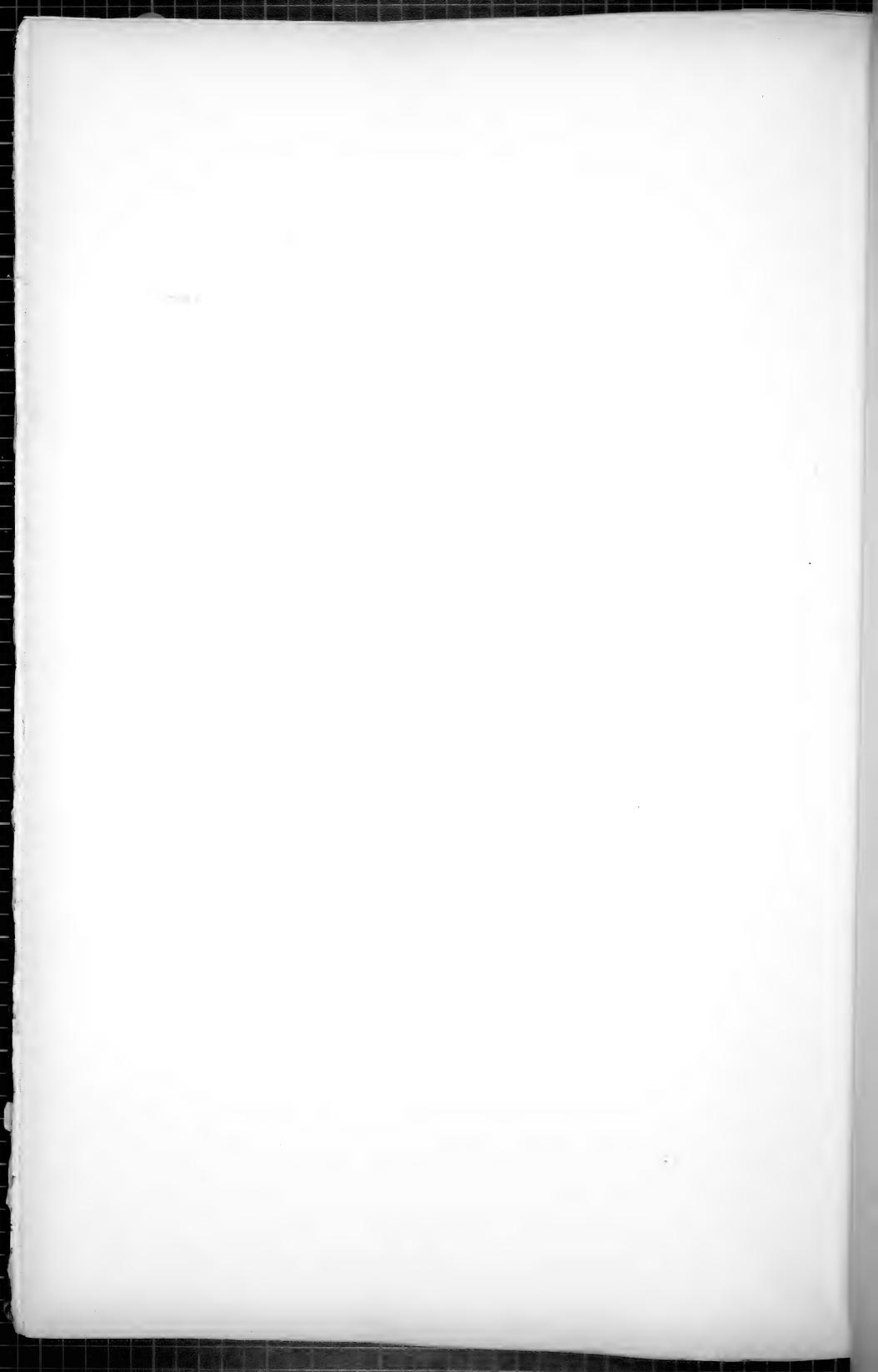
- l a...f. Daphnella angusta. 2 a. b. Penilia avirostris. 3 a...e. ___ orientalis.
- 4 a...e. Daphnia australiensis.
 5 a. b. _____ macrura.
 6 a. b. Ceriodaphnia textilis.

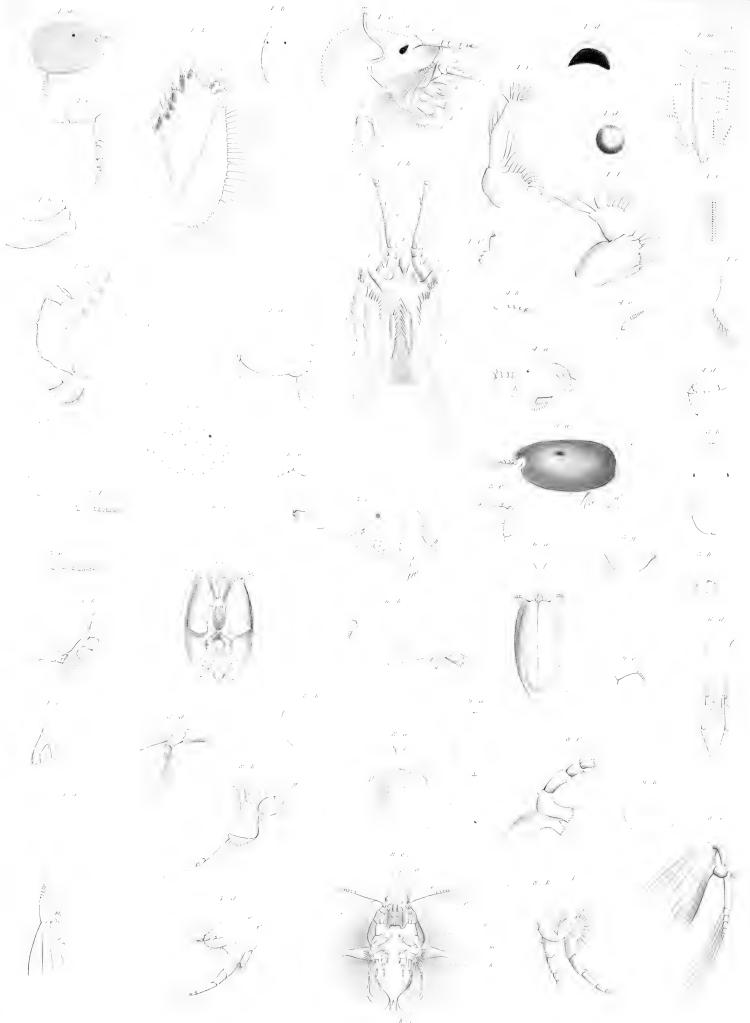
- 7 a. b. Lynceus latifrons. 8 a. c. Pleopis brevicaudis. 9 a...l. Cythere americana.

W.H.Dougol 8.





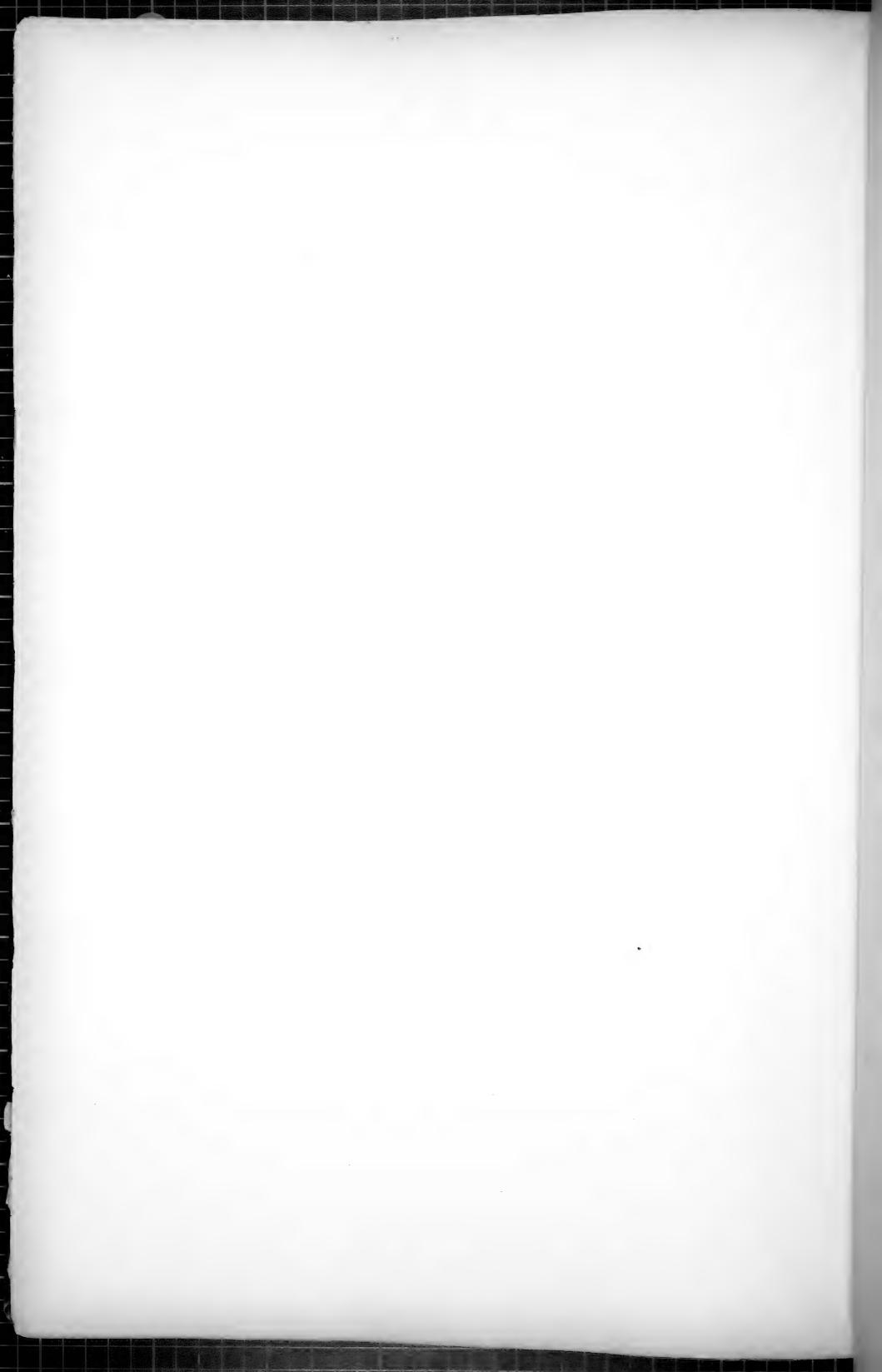




1 a..n. Cypridina lutcola. 2 a. h. punctata. 3·а. b. olivacea. Drawn by J.D. Dana.

4 a. e. Cypridina gibbosa. 7 a. f. Conchecia rostrata. $\mathcal{E} \not\supset a$ a. h. ____ formosa. 8 a. k. Halocypris inflata. 6 a. e. Conchecia agilis. 9 a. c. ____ brevirostris

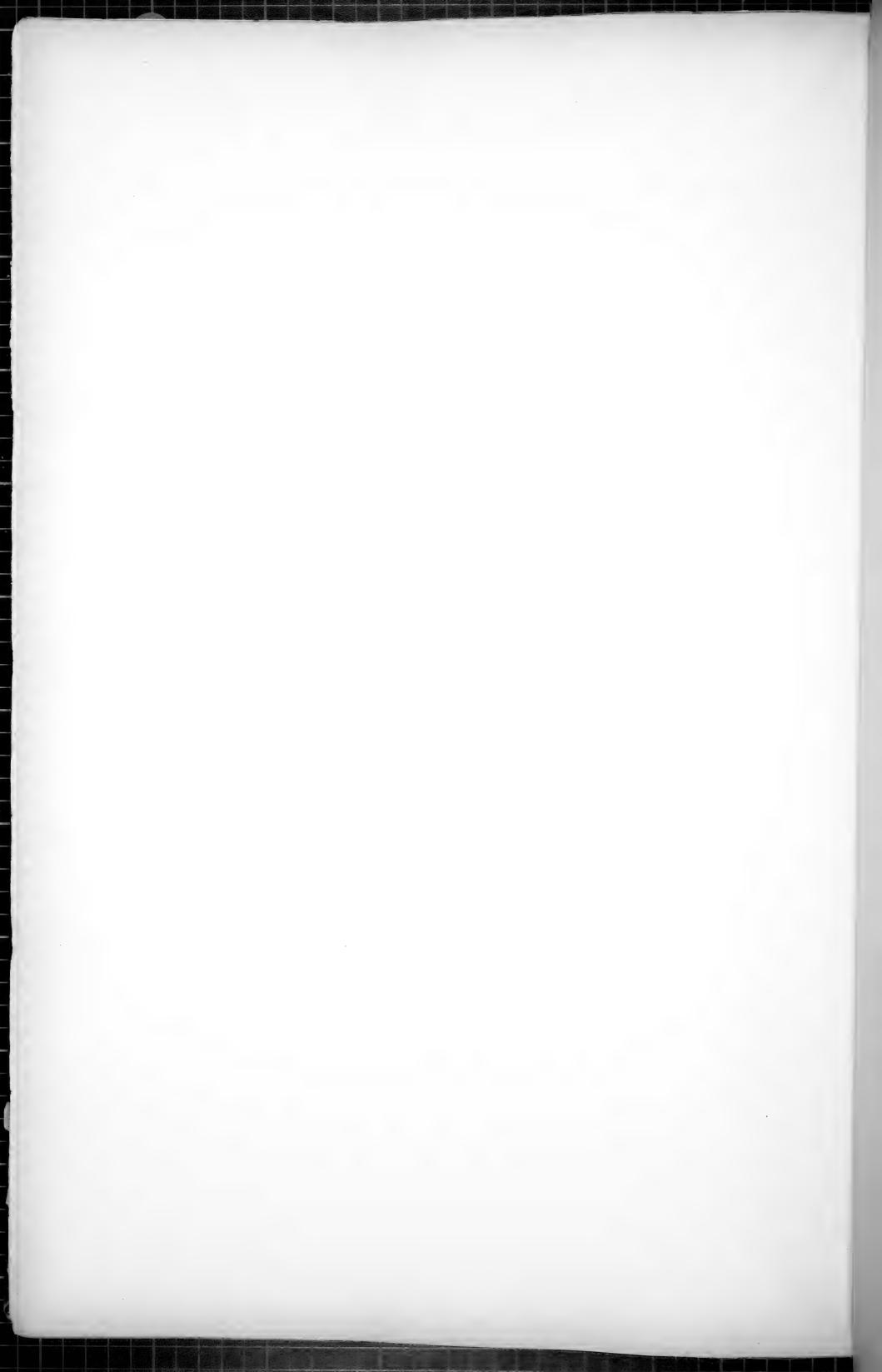
brevirostris.

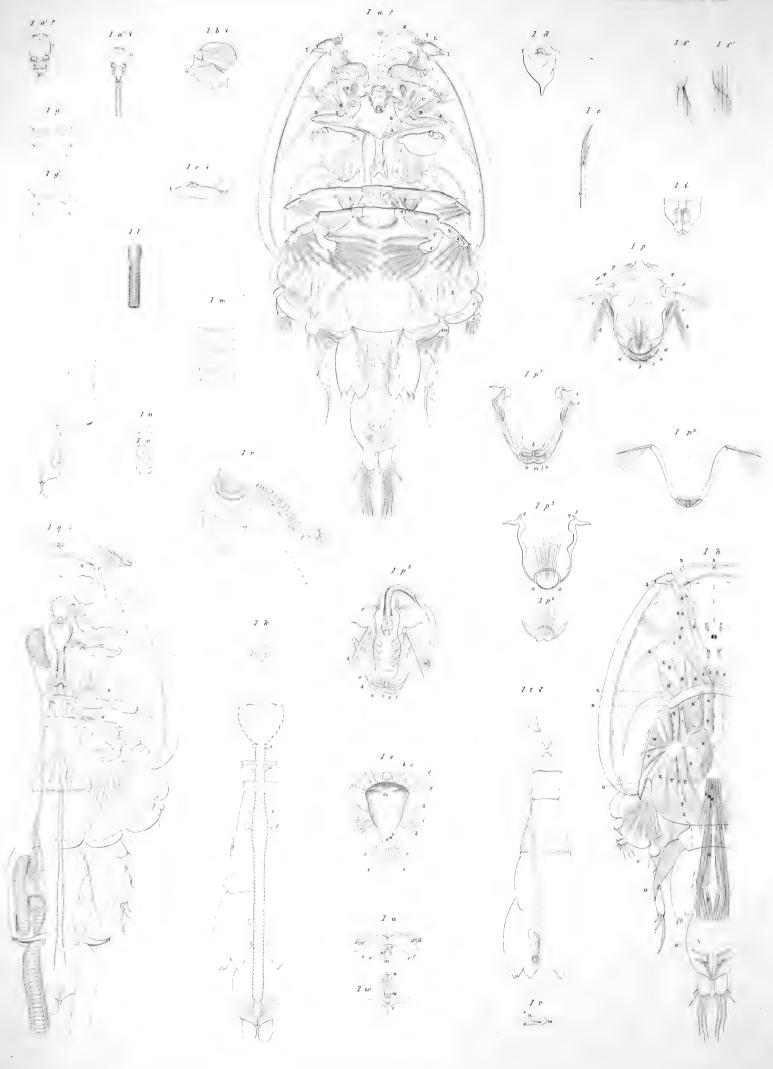




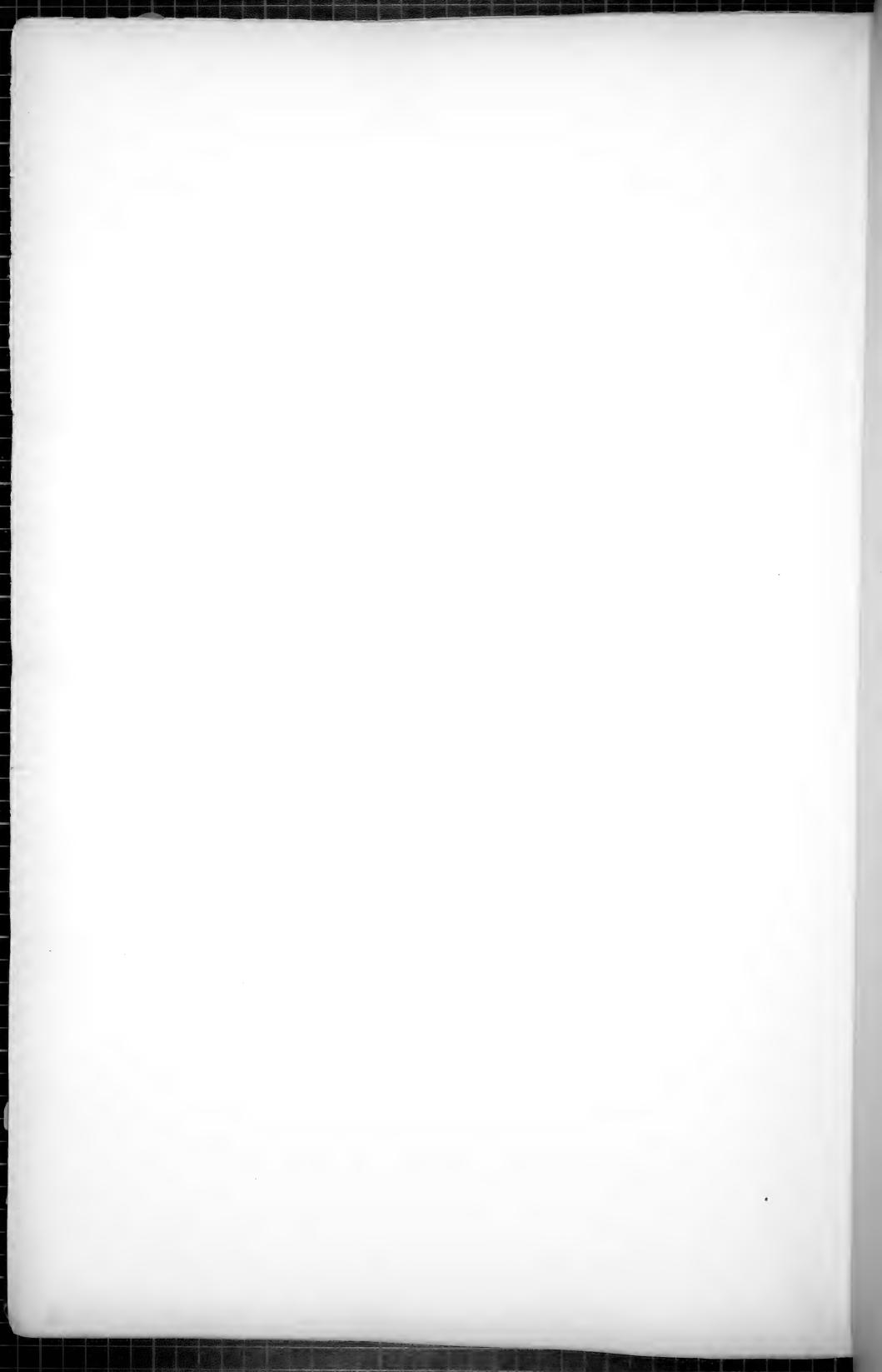
- 1 a...k. Sapphirina. 2 b...k. Arģulus. 3 a...k. Caliģus.

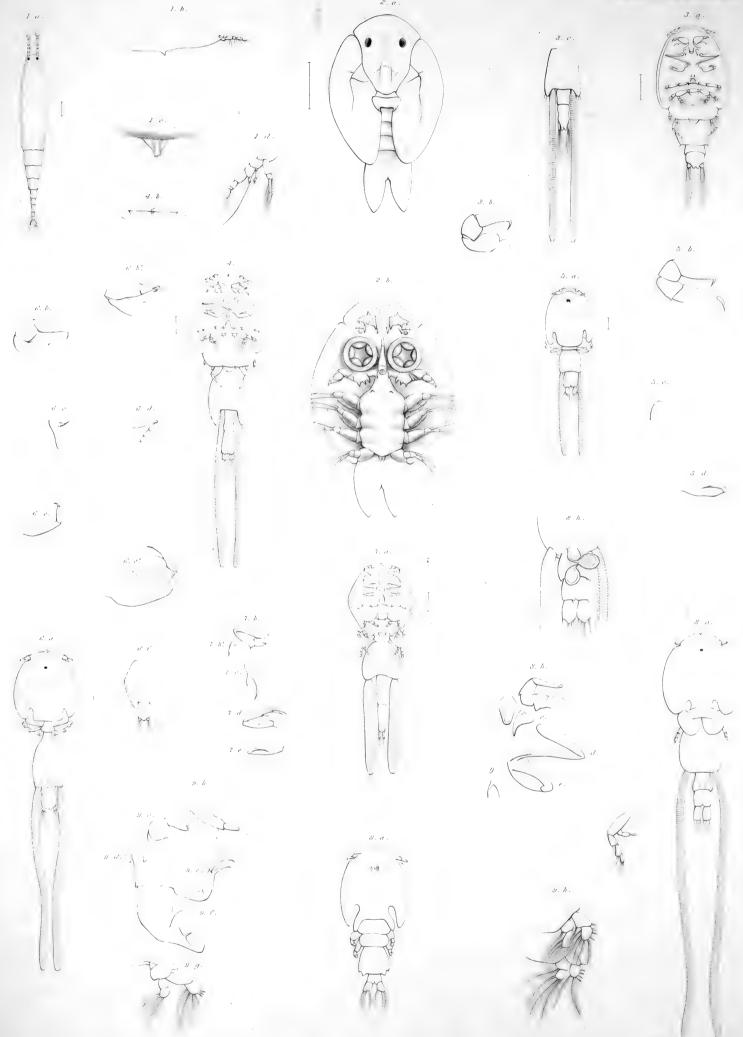
- 4 a...k. Pandarus.
 5 a...k. Lepidopus.
 6 a...i. Dichelestion.





Caligus Americanus





l a..d. Monstrilla viridis.

2 a. b. Argulus pugettensis. 3 a..c. Caligus Thymni.

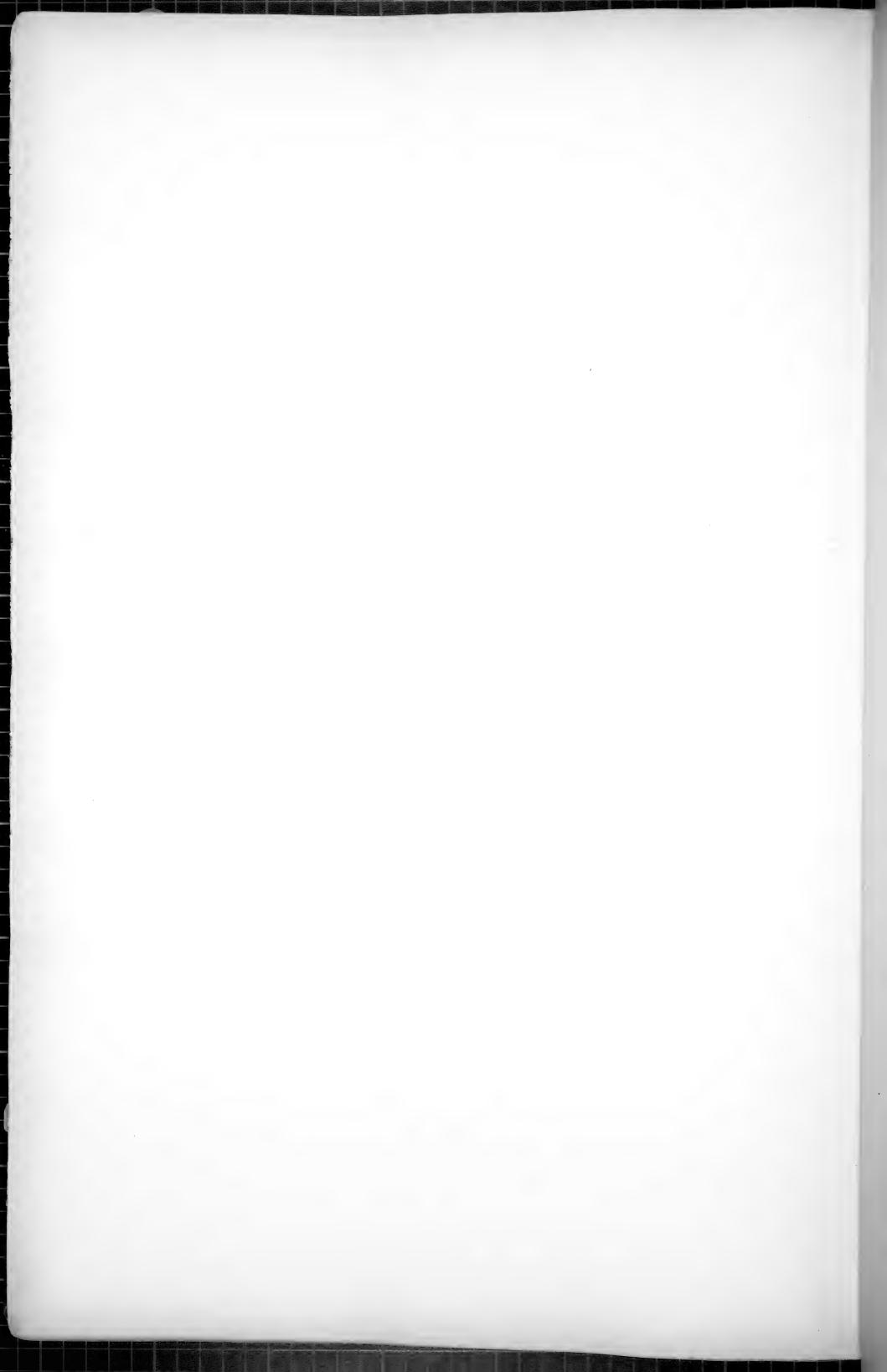
Drawn by J.D. Dana:

4. Caligus productus.
5 a..d. ____ gracilis.
6 a..h. Lepeophtheirus Bagri.

7 a.e. Calistes Trigonis. 8 a.h. Caligeria bella.

9 a..h. Nogagus validus.

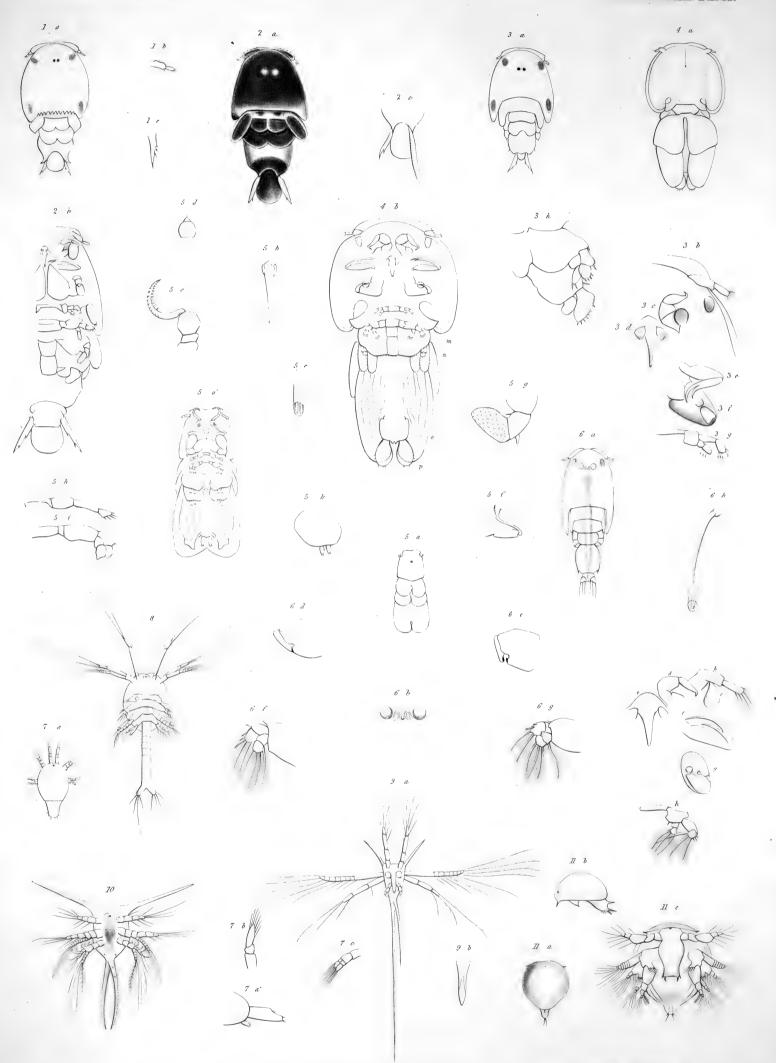
W. W. Dougal Se.



7 a. c. Corycaeus deplumatus jun.

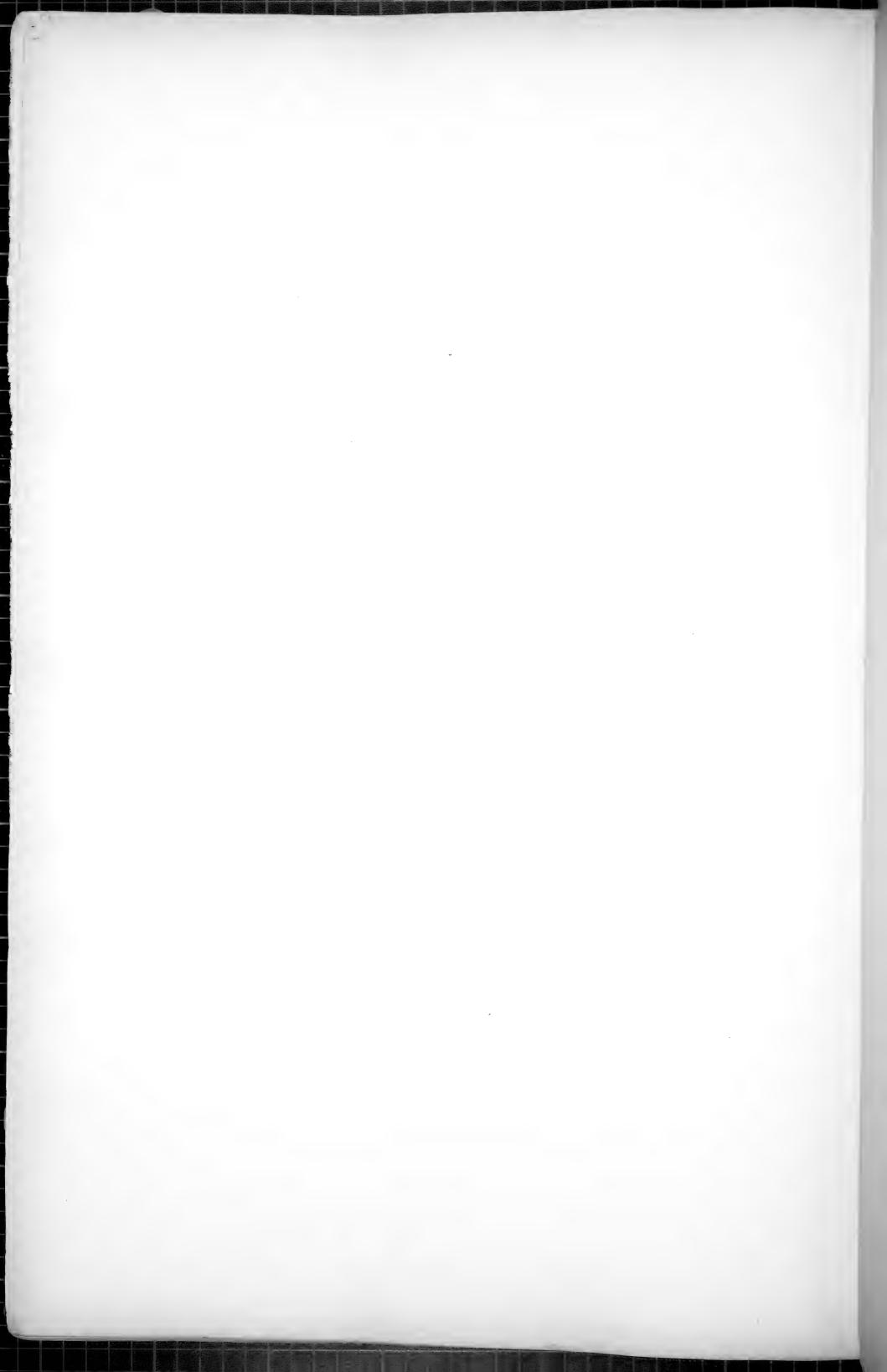
8 Young of a Schizopod?
9 10 Young of _____ ?
11 Young of Balanus?

W.H. Dougal Sc.



4 a. b. Dinematura hraccata 5 a. k. Lepidopus armatus

6 a. h. Specilligus curticandis



1 a 1 Lermeopoda californierais. 2 a c. Pycnogomin orientale. 5 8 Anatifidæ.9, a., g. Acastra sporillus.

